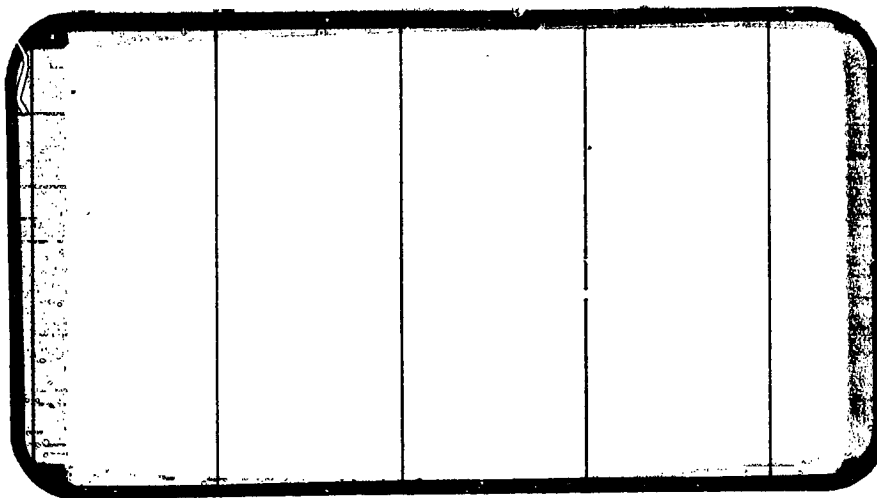


NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



(NASA-CR-134109; SUPERSONIC TESTS OF AN
0.005 SCALE SPACE SHUTTLE MATED VEHICLE
MODEL (67-OTS) IN THE LARC UPWT TO
OBTAIN AERODYNAMIC FORCE DATA (Chrysler
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services

SPACE DIVISION

CHRYSLER
CORPORATION

July, 1974

DMS-DR-2119
NASA-CR-134,109

SUPERSONIC TESTS OF AN 0.015-SCALE
SPACE SHUTTLE MATED VEHICLE MODEL (67-OTS)
IN THE LaRC UPWT TO OBTAIN
AERODYNAMIC FORCE DATA (IA42A/B)

By

R. Hardin and R. Burrows
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:_____

Test Number: LaRC UPWT 1056 and UPWT 1073
NASA Series Number: IA42A/B
Model Number: 67-OTS
Test Dates: A: 27 November through 4 December 1973
B: 17 through 21 December 1973
Occupancy Hours: A: 65
B: 50

FACILITY COORDINATOR.

David R. Stone
Langley Research Center
SSD, Vehicle Analysis Branch
Bldg. 1247-B, Room 120B
Mail Stop 163-A, Langley Station
Hampton, Virginia 23665

Phone: (804) 827-2483

PROJECT ENGINEERS:

R. Hardin
R. Burrows
Rockwell International
Space Division
Mail Code AC07
12214 Lakewood Blvd.
Downey, Calif. 90241

Bernard Spencer, Jr.
Langley Research Cen.-
SSD, Aerodynamic Sec.
Bldg. 1251, Room 221
Mail Stop 411
Langley Station
Hampton, Va. 23665

Phone: (213) 922-2976

AERODYNAMICS
ANALYSIS ENGINEERS:

J. Stone
J. Clauss
Rockwell International
Space Division
Mail Code AC07
12214 Lakewood Blvd.
Downey, Calif. 90241

Phone: (213) 922-4820

DATA MANAGEMENT SERVICES

This document has been prepared by:

for D. A. Sarver/M. J. Lanfranco
Liaison Operations

for J.E. Vaughn/M. M. Moser Jr.
Data Operations

This document has been reviewed and is approved for release.

for D. Kemp
Data Management Services

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

SUPERSONIC TESTS OF AN 0.015-SCALE
SPACE SHUTTLE MATED VEHICLE MODEL (67-OTS)
IN THE LARC UPWT TO OBTAIN
AERODYNAMIC FORCE DATA (IA42A/B)

By R. Hardin and R. Burrows, Rockwell International Space Division

ABSTRACT

This report contains results of wind tunnel tests of the NASA/Rockwell 0.015-scale Configuration 4 Mated Space Shuttle Vehicle (67-OTS).

The tests were conducted in two parts (IA42A, IA42B) to obtain aerodynamic force data for the range of Mach numbers from 1.60 to 4.63. Data were obtained for an alpha range of -10° to $+10^\circ$ ($\beta = 0$, $\beta = 5^\circ$) and beta range of -10° to $+10^\circ$ ($\alpha = 0^\circ$).

A complete model build-up was performed. Longitudinal and lateral-directional stability and control data were obtained for tank alone, tank plus SRB's, tank plus Orbiter, and mated configuration of tank + Orbiter + SRB's.

Single-component rudder hinge moment data were obtained at rudder deflections of 0° and -20° for each Mach number tested.

Plots of force and moments vs. Mach number using data from test number LRC-8TPT-667 (IA41) for Mach numbers of 0.60 to 1.20 are presented in addition to plots of IA42 data. The model tested in IA41 was the same model as tested in IA42A/B.

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TABLE OF CONTENTS

	Page
ABSTRACT	111
INDEX OF MODEL FIGURES	2
INDEX OF DATA FIGURES	3
NOMENCLATURE	5
CONFIGURATIONS INVESTIGATED	11
TEST FACILITY DESCRIPTION	14
DATA REDUCTION	15
REFERENCES	19
TABLES	
I. TEST CONDITIONS	21
II. RUN NUMBER/DATASET COLLATION SUMMARY	23
III. MODEL DIMENSIONAL DATA.	24
IV. PRESSURE WEIGHTING FACTORS -	56
FIGURES	
MODEL	58
DATA	76
APPENDIX	
TABULATED SOURCE DATA	

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Axis systems.	
a.	Body and Stability Axes	58
b.	Rudder Deflection Angle Defined	59
2.	Model sketches.	
a.	Mated Vehicle	60
b.	Orbiter Three View	61
c.	External Tank, T ₁₂	62
d.	External Tank Nose, T ₁₃	63
e.	External Tank, T ₁₈	64
f.	Lox Ventline Fairing (PT ₁ , PT ₃ , PT ₅ , PT ₇)	65
g.	ET Protuberance Brackets for PT ₂ and PT ₃	66
h.	Aft Orbiter/ET Attach Hardware	67
i.	Front Orbiter/ET Attach structure, AT ₅	68
j.	Solid Rocket Booster, S ₁₂	69
k.	Definition of Model Base and Cavity Areas	70
l.	Base Pressure Tap locations	71
m.	Transition Strip Locations, X ₁₉ (IA42A)	72
n.	Transition Strip Locations, X ₂₄ (IA42B)	73
3.	Model installation photographs.	
a.	Rear Three-Quarter View	74
b.	Side View	75

INDEX OF DATA FIGURES

TITLE	SCHEDULE OF COEFFICIENTS PLOTTED	PAGES
Configuration Build-up Effect on Longitudinal Characteristics BETA = 0° BETA = 0° BETA = 5°	A B A	1-28 29-31 32-59
Configuration Build-up Effect on Lateral-Directional Characteristics	C	60-73
Effect of External Tank Nose Shape on Longitudinal Characteristics BETA = 0° BETA = 0° BETA = 5°	A B A	74-93 94-96 97-116
Effect of External Tank Nose Shape on Lateral-Directional Characteristics	C	117-126
Effect of Umbilical Fairing on Longitudinal Characteristics BETA = 0° BETA = 0° BETA = 5°	A B A	127-146 147-149 150-169
Effect of Umbilical Fairing on Lateral-Directional Characteristics	C	170-179
Effect of Rudder Deflection on Longitudinal Characteristics BETA = 5° BETA = 5° BETA = 5°	A C D	180-199 200-209 210
Effect of Rudder Deflection on Lateral-Directional Characteristics	E F	211-230 231

INDEX OF DATA FIGURES (Concluded)

Schedule of Coefficients Plotted:

- A) CAFT, CABT, CN, CLM vs ALPHA; CN vs CLM
- B) DCN/DA, DCLMDA, XAC/L, CNALFO, CLMAFO, CAFAFO, CABAFO vs MACH
- C) CY, CYN, CBL vs ALPHA; CY vs CYN
- D) ~~CN~~/DRO, CLMDRO, CAFDRO vs MACH
- E) CY, CYN, CBL vs BETA, CY vs CYN
- F) CY/DRO, CYNDRO, CBLDRO vs MACH

NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A_b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
\bar{l}_{REF} \bar{c}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(P_b - P_m)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_{AbSRBN}		SRB nozzle base chord force coefficient
C^*_{AbET}		External Tank base chord force coefficient (based on A_{cET})
C^*_{AbORB}		Orbiter base chord force coefficient (based on A_{cORB} and Orbiter base pressures)
C_{AcET}		External Tank cavity chord force coefficient (corrected to base pressure)
C_{AcORB}		Orbiter cavity chord force coefficient (corrected to base pressure)
C^*_{AcET}		External Tank cavity chord force coefficient (based on A_{cET} and ET cavity pressures)
C^*_{AcORB}		Orbiter cavity chord force coefficient (based on A_{cORB} and Orbiter cavity pressures)
CAT	CAT	mated vehicle total chord force coefficient
$C_p()$		base and cavity pressure coefficient
$MRP(X_T, Y_T, Z_T)$		moment reference point is in ET coordinate system
P_o		tunnel freestream static pressure, psfa
P_T		tunnel freestream total pressure, psfa
T_o		tunnel freestream static temperature, °R
T_T		tunnel freestream total temperature, °R
A_{bACPS}		attitude control propulsion system base area, ft ² (total for two)
A_{bET}		External Tank total base area, ft ²

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
A_{bOMS}		Orbital Maneuvering System base area (total for two), ft^2
A_{bORB}		total Orbiter base area, ft^2
A_{bSRB}		SRB shroud base area (minus projected nozzle base area), ft^2 (total for two)
A_{bSRBN}		SRB nozzle base area, ft^2 (total for two)
A_{cET}		External Tank cavity area, ft^2
A_{cORB}		Orbiter cavity area, ft^2
C_{ABAL}		balance chord force coefficient (uncorrected)
C_{AACPS}		Attitude-Control Maneuvering System base chord force coefficient
C_{AbET}		External Tank base chord force coefficient (based on A_{bET})
C_{AbOMS}		Orbital Maneuvering System base chord force coefficient
C_{AbORB}		Orbiter base chord force coefficient (based on A_{bORB})
C_{AbSRB}		SRB shroud base chord force coefficient
$WF()$		model pressure weighting factor, either 1 or 0 (denoted by manifold subscript number)
$C_{m\alpha}/C_{N\alpha}$	XAC/L	longitudinal static stability derivative; $-(C_{m\alpha}/C_{N\alpha})$ body axis system
x_o		Orbiter longitudinal station, in.
x_T		Tank longitudinal station, in.
y_o		Orbiter spanwise station, in.
y_T		Tank spanwise station, in.
δ_r		rudder deflection, degrees
δ_{SB}	SPDBRK	speedbrake deflection, degrees

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_{AbT}	CABT	total mated vehicle base chord force coefficient; $C_{AbT} = C_{AT} - C_{AfT}$
C_{AfT}	CAFT	total mated vehicle forebody chord force coefficient; $C_{AfT} = C_{AT} - C_{AbORB} - C_{AbOMS} - C_{AbACPS} - C_{AbSRB}$ $- C_{AbSRBN} - C_{AbET}$
$(C_N)_{\alpha=0}$	CNALFO	normal force coefficient at zero degrees alpha
$(C_m)_{\alpha=0}$	CLMAFO	pitching moment coefficient at zero degrees alpha
$(C_{AbT})_{\alpha=0}$	CABAFO	base chord force coefficient at zero degrees alpha
$(C_{AfT})_{\alpha=0}$	CAFAFO	forebody chord force coefficient at zero degrees alpha
$(C_{Y_{\delta R}})_{\alpha=0}$	CY/DRO	side force coefficient gradient with rudder deflection at zero alpha
$(C_{n_{\delta R}})_{\alpha=0}$	CYNDRO	yawing moment coefficient gradient with rudder deflection at zero alpha
$(C_{l_{\delta R}})_{\alpha=0}$	CBLDRO	rolling moment coefficient gradient with rudder deflection at zero alpha
$(C_{N_{\delta R}})_{\alpha=0}$	CN/DRO	normal force coefficient gradient with rudder deflection at zero alpha
$(C_{m_{\delta R}})_{\alpha=0}$	CLMDRO	pitching moment coefficient gradient with rudder deflection at zero alpha
$(C_{AfT_{\delta R}})_{\alpha=0}$	CAFDR0	forebody chord force coefficient gradient with rudder deflection at zero alpha
$C_{N_{\alpha}}$	DCN/DA	normal force coefficient gradient with angle of attack
$C_{m_{\alpha}}$	DCLMDA	pitching moment coefficient gradient with angle of attack

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
	CPTC1	pressure coefficient in ET balance cavity, computed from pressure tap 18 data
	CPTC2	pressure coefficient in ET balance cavity computed from pressure tap 19 data —
	CPTP	ET base pressure coefficient
	CPSRBC	SRB cavity pressure coefficient
	CPSRBB	SRB base pressure coefficient

CONFIGURATIONS INVESTIGATED

The model (#670TS) tested was a mated shuttle vehicle that had build-up capability. Model build-up was performed with the following configuration combinations: Tank alone, Tank + SRB's, ~~Tank + Orbiter~~, and Tank + SRB's + Orbiter.

The Orbiter was a cast aluminum representation of model #49-0; an 0.015-scale, 140A/B Configuration Orbiter. The Orbiter rudder had a single-component strain-gaged beam at the hingeline and could be set at 0° and -20° . The Orbiter bodyflap had settings of -11.7° , 0° , and 16.3° . Orbiter elevons could be set at $+15^\circ$, 0° , -40° .

The internal balance could be mounted in either the Tank or the Orbiter. The Tank and SRB's were made of aluminum and all attach hardware and protruberances were simulated for the Tank, SRB's, and Orbiter.

The following table summarizes the model configurations and their corresponding nomenclature:

Tab Data Configuration	Description
O_1	$B_{26}, C_9, W_{116}, E_{26}, F_7, M_7, N_{72}, R_5, V_8, X_{19}$ or 24
T_1	T_{12} (Baseline), X_{19} or 24
T_2	T_{13} (Baseline with 1208 inch radius tangent ogive nose)
T_4	T_{18} (Shortened Baseline)
S_1	S_{12} (Baseline), N_{25}, X_{19} or 24
P_1	$PT_1, PT_2, PT_3, AT_5, AT_{12}, AT_{13}, AT_{14}, AT_9, FL_1, FL_2$

Tab Data Configuration

Description

P ₂	PS ₁ , PS ₂ , PS ₃
P ₄	PT ₂ , PT ₃ , PT ₅ , AT ₅ , AT ₁₂ , AT ₁₃ , AT ₁₄ , AT ₉ , FL ₁ , FL ₂ ,
P ₆	PT ₂ , PT ₃ , PT ₇ , AT ₅ , AT ₁₂ , AT ₁₃ , AT ₁₄ , AT ₉ , FL ₁ , FL ₂
FR ₁	FR ₁ (Umbilical door fairing)

Boundary layer transition strip X₁₉ was used for IA42A ($1.6 \leq M \leq 2.86$) and X₂₄ was used for IA42B ($3.9 \leq M \leq 4.63$).

The model base was instrumented with pressure orifices as shown in figure 2L. These pressures were manifolded as shown below.

Test IA42A

i for C_p_i in Data
Reduction section
(Manifold No.)

	<u>LOCATION</u>	<u>TAP NOS.</u> (Figure 2L)
1	Orbiter Cavity	16, 17 (bal. in orb.)
1	Tank Cavity	18, 19 (bal. in tank)
2	Orbiter Base	1, 2, 3, 4
3	Tank Base	7, 8, 9, 10, 11, 12
4	SRB Nozzle	5, 6
5	SRB Shroud Base	13, 14
6	OMS & ACPS Base	15

Test IA42B

1	Orbiter Cavity	16, 17 (bal. in orb.)
1	Tank Cavity	18, 19 (bal. in orb.)
2	Orbiter Base	1, 2, 3, 4

1 for C_{p1} in Data
Reduction section
(Manifold No.)

Location

TAP NOS. (Figure 2L)

3	Tank Base	7, 8, 9, 10, 11, 12
4	SRB nozzle	15
5	SRB shroud base	13, 14
6	OMS & ACPS base	5, 6

TEST FACILITY DESCRIPTION

The Langley Research Center Unitary Plan Wind Tunnel is an air-medium continuous-flow facility consisting of two test sections. Asymmetrical sliding-block type throats control Mach number, and models can be supported from stings mounted to the side-wall strut-systems. Each test section is 4 feet by 4 feet. Section Number 1 operates at $M = 1.47$ to $M = 2.86$ and Section Number 2 operates at $M = 2.29$ to $M = 4.63$.

Reynolds numbers and tunnel pressures are variable, with limitations prescribed by tunnel capabilities and model load designs. Normal operating total temperature is 150°F .

DATA REDUCTION

Vehicle total chord force coefficient (C_{A_T}) was computed as follows:

$$C_{A_T} = C_{A_{BAL}} + C_{A_{CORB}} + C_{A_{CET}} \quad (1)$$

where:

$$C_{A_{CORB}} = -C_{A_{CORB}}^* + C_{A_{DORB}}^* \quad (2)$$

$$C_{A_{CET}} = -C_{A_{CET}}^* + C_{A_{DET}}^* \quad (3)$$

and:

$$C_{A_{CORB}}^* = -C_{P(1)} \frac{A_{CORB}}{S_{REF}} WF(1) \quad (4)$$

$$C_{A_{DORB}}^* = -C_{P(2)} \frac{A_{CORB}}{S_{REF}} WF(2) \quad (5)$$

Balance
Mounted
in Orbiter

$$C_{A_{CET}}^* = -C_{P(1)} \frac{A_{CET}}{S_{REF}} WF(1) \quad (6)$$

$$C_{A_{DET}}^* = -C_{P(3)} \frac{A_{CET}}{S_{REF}} WF(3) \quad (7)$$

Balance
Mounted
in Tank

Forebody chord force coefficient ($C_{A_{ft}}$) was computed as follows:

$$C_{A_{ft}} = C_{A_T} - C_{A_{DORB}} - C_{A_{DOMS}} - C_{A_{DACPS}} - C_{A_{DSRB}} - C_{A_{DSRBN}} - C_{A_{DET}} \quad (8)$$

DATA REDUCTION (Continued)

where:

$$C_{A_{bORB}} = - C_P (2) \frac{A_{bORB}}{S_{REF}} W_F(2) \quad (9)$$

$$C_{A_{bOMS}} = - C_P(i) \frac{A_{bOMS}}{S_{REF}} W_F(i), \quad i = \begin{matrix} 4, \text{ for IA42A} \\ 6, \text{ for IA42B} \end{matrix} \quad (10)$$

$$C_{A_{bACPS}} = - C_P(i) \frac{A_{bACPS}}{S_{REF}} W_F(i), \quad i = \begin{matrix} 4, \text{ for IA42A} \\ 6, \text{ for IA42B} \end{matrix} \quad (11)$$

$$C_{A_{bSRB}} = - C_P(5) \frac{A_{bSRB}}{S_{REF}} W_F(5) \quad (12)$$

$$C_{A_{bSRBN}} = - C_P(j) \frac{A_{bSRBN}}{S_{REF}} W_F(j), \quad j = \begin{matrix} 6, \text{ for IA42A} \\ 4, \text{ for IA42B} \end{matrix} \quad (13)$$

$$C_{A_{bET}} = - C_P(3) \frac{A_{bET}}{S_{REF}} W_F(3) \quad (14)$$

$$C_{A_{bT}} = C_{A_T} - C_{A_{f_t}} \quad (15)$$

Longitudinal static stability derivative (XAC/L)
was computed as follows:

$$XAC/L = - \frac{C_{m_\alpha}}{C_{N_\alpha}} \quad (16)$$

DATA REDUCTION (Continued)

Model pressure coefficient ($C_{P(i)}$) was computed as follows:

$$C_{P(i)} = \frac{P(i) - P_o}{q} \quad (17)$$

Rudder hinge moment coefficient was computed as follows:

$$C_{H_r} = \frac{H_{M_r}}{q S_r C_r} \quad (18)$$

The following reference dimensions and constants were used:

<u>Symbol</u>	<u>Full Scale</u>	<u>Model Scale</u>
A_{bACPS}	37.778 ft ²	0.0085 ft ²
A_{bET}	572.555 ft ²	0.1288 ft ²
A_{bOMS}	52.00 ft ²	0.0117 ft ²
A_{bORB}	337.778 ft ²	0.076 ft ²
A_{bSRB}	184.332 ft ²	0.0414 ft ²
A_{bSRBN}	217.792 ft ²	0.0490 ft ²
A_{cET}	--	0.0218 ft ²
A_{cORB}	--	0.0349 ft ²
$L_{REF} = b_{REF}$	1290.3 in	19.355 in

DATA REDUCTION (Concluded)

<u>Symbol</u>		<u>Full Scale</u>	<u>Model Scale</u>
MRP	x_T	976 in	14.640 in
	y_T	0.0 in	0.0 in
	z_T	400 in	6.0 in
	s_{REF}	2690 ft ²	0.6053 ft ²
	s_r	100.15 ft ²	0.0225 ft ²
	c_r	73.7 in	1.106 in

REFERENCES

Model Drawings

SSA-01166 "Orbiter, ET, and SRB Assembly"

SSA-01167 "ET-Assembly Details"

SSA-01168 "SRB Assembly Details"

SSA-01169 "UPWT Installation Drawing"

SSA-01170 "8-Foot TPT Installation Drawing"

SSA-01171 "Orbiter Assembly Drawing"

Rockwell Lines Drawing

VL70-000140A/B "Orbiter Configuration Control Drawing MCR 200 R₃ Baseline dated 7/2/73"

VL70-000146A "Lines Control Vertical Tail Baseline MCR 200 R₁, dated 5/16/73"

VL72-000088E "Shuttle Configuration Control MCR 200 Baseline R₄ dated 8/16/73"

VL77-000036A "SRB Configuration Control MCR 200 R₁, dated 5/16/73"

VL78-000031A "Thermal Protection - External Tank MCR 200 Baseline Dated 4/11/73"

VL78-000041B-000041B "External Tank Configuration Control MCR 200 R₂, dated 6/11/73"

VL78-000050 "Fairing/ET/Orbiter Attach Hardware"

Pretest Report

SD73-SH-0263 "Pretest Information for the 0.015-Scale Space Shuttle Mated Vehicle Tests IA41 and IA42 in the LRC UPWT and LRC 8-Foot TPT."

REFERENCES (Concluded)

Reports

- DMS-DR-2118 "Results of Transonic Wind Tunnel Tests on an 0.015 Scale Space Shuttle Mated Vehicle Model (67-OTS) in the LaRC 8-foot TPT (IA41)"; Hardin, R. and Burrows, R.
- DMS-DR-2120 "Wind Tunnel Tests of an 0.015 Scale Configuration 140A/B Space Shuttle Orbiter Model (67-0) in the NASA/LaRC 8-foot TPT to Obtain Transonic Aerodynamic Force Data (OA106)"; Burrows, R.

TABLE I.

[illegible]

TABLE I. - Concluded

TEST : LRC UPWT-1073		DATE : 17 Dec. 73
IA42B		TEST CONDITIONS
MACH NUMBER	REYNOLDS NUMBER <small>(per unit length)</small>	DYNAMIC PRESSURE <small>(pounds/sq. ft.)</small>
3.90	$2.50 \times 10^6 / \text{ft.}$	376
4.63	$2.49 \times 10^6 / \text{ft.}$	290

BALANCE UTILIZED: LRC #832D

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>1,000 lbs</u>	<u>±0.05%</u>	_____
SF	<u>250 lbs</u>	<u>±0.05%</u>	_____
AF	<u>85</u>	<u>±0.05%</u>	_____
PM	<u>2,000 in-lb</u>	<u>±0.05%</u>	_____
RM	<u>500 in-lb</u>	<u>±0.05%</u>	_____
YM	<u>1,000 in-lb</u>	<u>±0.05%</u>	_____

COMMENTS:

TABLE II

TEST: UPWT 1056/1073(IA42A/B)										DATE: 27 NOV, 73										UPWT 1056										UPWT 1073									
DATA SET / RUN NUMBER COLLATION SUMMARY										MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS																			
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)							TEST RUN NUMBERS																									
		A	B	S	P		1.6	1.7	2.0	2.5	2.86	3.9	4.63																										
RQ6001	T ₁ P ₁	A	0	0			5		7	1	3				107	111																							
02	T ₁ P ₁	A	5	0			6		8	2	4				108	112																							
03	T ₁ P ₁ S ₁ P ₂	A	0	0			13		15	9	11				101	105																							
04	T ₁ P ₁ S ₁ P ₂	A	5	0			14		16	10	12				102	106																							
05	T ₁ P ₁ O ₁	A	0	0				23	21	17	19				113	117																							
06	T ₁ P ₁ O ₁	A	5	0				24	22	18	20				114	118																							
07	T ₁ P ₁ O ₁ S ₁ P ₂	A	0	0					37	29	33				119	124																							
08		A	5	0					38	31	34				120	125																							
09		0	B	0					39	30	35				121	126																							
10		A	5	-20					45	41	43				127	129																							
11		0	B	-20					46	42	44				128	130																							
12	T ₁ P ₁ O ₁ S ₁ P ₂ FR ₁	A	0	0					51	47	49				131	133																							
13	T ₁ P ₁ O ₁ S ₁ P ₂ FR ₁	A	5	0					52	48	50				132	134																							
14	T ₄ P ₆ O ₁ S ₁ P ₂	A	0	0					57	53	55				135	137																							
15	T ₄ P ₆ O ₁ S ₁ P ₂	A	5	0					58	54	56				136	138																							
16	T ₂ P ₄ O ₁ S ₁ P ₂	A	0	0					63	59	61				139	141																							
17	T ₂ P ₄ O ₁ S ₁ P ₂	A	5	0					64	60	62				140	142																							
BETA		CN	CLM	CA	CAT	CAT	CACT	CACT	CACT	49	55	55	MACN	ALPHA																									
BETA		TL/D	13P1C1	13P1C2	23P1P	3KPS	RRRPS	RRRPS	RRRPS	49	55	55	MACN	ALPHA																									
BETA		CA	CLM	CA	CAT	CAT	CACT	CACT	CACT	154	154	154	MACN	ALPHA																									
BETA		CA	CLM	CA	CAT	CAT	CACT	CACT	CACT	154	154	154	MACN	ALPHA																									
A = B = -10 → 10, A = 2°																																							
SCHEDULES																																							

TABLE III.- Model Dimensional Data.

MODEL COMPONENT: BODY - (B₂₆)GENERAL DESCRIPTION: Orbiter Fuselage Configuration 140 A/B

NOTE: B₂₆ identical to B₂₄ except underside of fuselage refaired to
accept W₁₁₆.

Model Scale = 0.015

DRAWING NUMBER: VL70-000193
VL70-000140A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (Body Fwd Sta $X_0 = 235$) - in.	<u>1293.3</u>	<u>19.400</u>
Max. Width (at $X_0 = 1520$) - in.	<u>262.0</u>	<u>3.93</u>
Max. Depth (at $X_0 = 1464$) - in.	<u>250.0</u>	<u>3.75</u>
Fineness Ratio	<u>0.26357</u>	<u>0.26357</u>
Area - ft ²		
Max. Cross-Sectional	<u>340.88462</u>	<u>0.07670</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III.---Continued.

MODEL COMPONENT: Canopy (C₉)

GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Fuselage

Model Scale = 0.015 Model Drawing No. SS-A00147

DRAWING NUMBER: VL70-000140A
VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0=434.643$ to 670)	<u>235.357</u>	<u>3.530</u>
Max Width (@ $X_0=513.127$)	<u>152.412</u>	<u>2.286</u>
Max Depth (@ $X_0=485.0$)	<u>25.000</u>	<u>0.375</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III - Continued.

MODEL COMPONENT: WING-(W₁₁₆)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Wing-NOTE: Identical to W₁₁₄ except airfoil thickness. Dihedral angle is along
trailing edge of wing.

Model Scale = 0.015

Model Drawing No. SS-A00148

TEST NO.

DWG. NO. VL70-000140B
VL70-000200

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft²

Planform

2690.00

0.6053

Span (Theo In.

936.6816

14.050

Aspect Ratio

2.265

2.265

Rate of Taper

1.177

1.177

Taper Ratio

0.200

0.200

Dihedral Angle, degrees(at X₀=1506.623, Y₀=

3.500

3.500

Incidence Angle, degrees 105, Z₀= 282.75)

0.500

0.500

Aerodynamic Twist, degrees

+3.000

+3.000

Sweep Back Angles, degrees

45.00

45.00

Leading Edge

-10.056

-10.056

Trailing Edge

35.209

35.209

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

689.2429

10.339

Tip, (Theo) B.P.

137.8486

2.068

MAC

474.8117

7.222

Fus. Sta. of .25 MAC

1126.721

17.051

W.P. of .25 MAC

291.00

4.365

B.L. of .25 MAC

187.33491

2.810

EXPOSED DATA

Area (Theo) Ft²

1812.2205

0.408

Span, (Theo) In. BP108

736.6815

11.050

Aspect Ratio

2.058

2.058

Taper Ratio

0.2451

0.2451

Chords

Root BP108

570.6230

8.559

Tip 1.00 $\frac{b}{2}$

137.8512

2.06

MAC

354.2376

5.314

Fus. Sta. of .25 MAC

1164.237

17.464

W.P. of .25 MAC

292.00

4.380

B.L. of .25 MAC

239.67786

3.595

Airfoil Section (Rockwell Mod HASA)

XXXX-64

Root $\frac{b}{2}$ = 0.425

0.113

0.113

Tip $\frac{b}{2}$ = 1.00

0.12

0.12

Data for (1) of (2) Sides

Leading Edge Cuff 2

79.13380

0.0266

Planform Area Ft²

505.0

7.575

Leading Edge Intersects Fus M. L. @ Sta

1081.5

15.053

Leading Edge Intersects Wing @ Sta

TABLE III. - Continued.

MODEL COMPONENT: ELEVON - (E₂₆)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter ElevonNOTE: VL70-000200 data for (1) of (2) sides. Identical to E₂₅ except
airfoil thicknessModel Scale = 0.015Model Drawings No. SS-A00148DRAWING NUMBER:VL70-000200
VL70-000140 BDIMENSIONS:FULL-SCALEMODEL SCALE

Area

223.58140.0503

Span (equivalent)

368.345.525

Inb'd equivalent chord

119.6231.794

Outb'd equivalent chord

55.19220.828Ratio movable surface chord/
total surface chord0.20960.2096

At Inb'd equiv. chord

0.40040.4004

At Outb'd equiv. chord

Sweep Back Angles, degrees

Leading Edge

0.000.00

Tailing Edge

-10.056-10.056

Hingeline

0.000.00

Area Moment (Normal to hinge line)

851.15020.00287

TABLE III. - Continued.

MODEL COMPONENT: Body Flap - (F₇)

GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Body Flap

NOTE: Body flap has variable centerline deflection of +16.3° and
-11.7° from null position. Hinge line located at $X_0 = 1528.3$,

$Z_0 = 284.3$

Model Drawing No. SS-A00147

Model Scale = 0.015

DRAWING NUMBER

VL70-000140A, VL70-000145

DIMENSION:

FULL SCALE

MODEL SCALE

Length ($X_0 = 1520$ to $X_0 = 1613$) - IN.

93.000

1.395

Max Width - IN.

262.000

3.930

Max Depth ($X_0 = 1520$) - IN.

23.000

0.345

Fineness Ratio

Area - Ft²

Max Cross-Sectional

Planform

Wetted

Base

150.5250

0.0339

41.84722

0.00941

TABLE III. - Continued.

MODEL COMPONENT : OMS Pod (M7)

GENERAL DESCRIPTION : Configuration 140 A/B Orbiter OMS-Pod

Model Scale = 0.015 Model Drawing No. SS-A00147

DRAWING NUMBER : VL70-000140A
VL70-000145

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0=1233.0$) - IN.	<u>327.000</u>	<u>4.905</u>
Max Width - (@ $X_0=1450.0$) - IN.	<u>94.5</u>	<u>1.418</u>
Max Depth (@ $X_0=1493.0$) - IN.	<u>109.000</u>	<u>1.635</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - N₇₂

GENERAL DESCRIPTION: Configuration 140 A/B Orbiter OMS Nozzle

The pitch null was mounted to model at 30° but it was supposed to be at 15°46'
according to Lines VL70-000140A.

MODEL SCALE = 0.015 Model Drawing No. SS-A00147

DRAWING NO. VL70-000140A

<u>DIMENSIONS</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Mach No. _____		
Length ~ in. _____		
Gimbal Point to Exit Plane _____	_____	_____
Throat to Exit Plane _____	_____	_____
Diameter ~ in. _____		
Exit _____	_____	_____
Throat _____	_____	_____
Inlet _____	_____	_____
Area ~ ft ² . _____		
Exit _____	_____	_____
Throat _____	_____	_____
Gimbal Point (station) ~ in. _____		
X _____	<u>1510.0</u>	<u>22.77</u>
Y _____	<u>± 88.0</u>	<u>1.32</u>
Z _____	<u>492.0</u>	<u>7.38</u>
Null Position ~ deg. _____	<u>30</u>	<u>30</u>
Pitch _____	_____	_____
Yaw _____	<u>12° 17'</u>	<u>12° 17'</u>

TABLE III. - Continued.

MODEL COMPONENT: RUDDER - R5GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Rudder ..Model Scale = 0.015Model Drawing No. SS-A00148DRAWING NUMBER:VL70-000095, VL70-000146ADIMENSIONS:FULL-SCALEMODEL SCALEArea - FT²106.380.0239

Span (equivalent) - IN.

201.03.015

Inb'd equivalent chord

91.5851.374

Outb'd equivalent chord

50.8330.762Ratio movable surface chord/
total surface chord0.4000.400

At Inb'd equiv. chord

0.4000.400

At Outb'd equiv. chord

Sweep Back Angles, degrees

Leading Edge

34.8334.83

Tailing Edge

26.2526.25

Hingeline

34.8334.83Area Moment (Normal to hinge line)- FT³
(Product of Area and Mean Chord)526.130.00178

TABLE III. - Continued.

MODEL COMPONENT: VERTICAL - V 8.GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Vertical Tail

NOIT: Similar to V5 with radius on TE upper corner and LE lower corner
where vertical meets fuselage.

Model Scale = 0.015

Model Drawing No. SS-A00143

DRAWING NUMBER:

VL70-000140A
 VL70-000146A

DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo) Ft ²	413.253	0.09298
Planform		
Span (Theo) In	315.720	4.73580
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.40399	0.40399
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	25.947	25.947
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.500	4.02750
Tip (Theo) WP	108.470	1.62705
MAC	199.80756	2.99711
Fus. Sta. of .25 MAC	1463.50	21.95250
W. P. of .25 MAC	635.522	9.53283
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.00	10.00
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius	2.00	0.0300
Void Area	13.17	0.00296
Blanketed Area	0.00	0.00

TABLE III. - Continued.

MODEL COMPONENT: BOUNDARY LAYER TRANSITION STRIP - X₁₉

GENERAL DESCRIPTION: Carborundum grit located on SRB, ET, and orbiter noses and orbiter wing and vertical stabilizer surfaces.

DIMENSIONS: (model scale, inches).

Nominal grit size

No.

50

Diameter - In.

0.0128

Location - In.

Aft of nose leading edge, streamwise

1.2

Aft of wing, vertical tail, and inches perpendicular to leading edge

0.283

Aft of glove, inches perpendicular to leading edge

0.069

TABLE III. - Continued.

MODEL COMPONENT: BOUNDARY LAYER TRANSITION STRIP - X₂₄

GENERAL DESCRIPTION: Carborundum grit located on SRB, ET, and orbiter nose and orbiter wing and vortical stabilizer surfaces.

DIMENSIONS: (model scale, inches)

Nominal Grit Size:

No.	<u>40</u>
-----	-----------

Diameter - In.	<u>0.0181</u>
----------------	---------------

Location - In.

Aft of nose leading edge, streamwise.	<u>1.2</u>
---------------------------------------	------------

Aft of wing, vertical tail, and inches perpendicular to leading edge	<u>0.283</u>
--	--------------

Aft of glove, inches perpendicular to leading edge	<u>0.069</u>
--	--------------

TABLE III. - Continued.

MODEL COMPONENT: EXTERNAL TANK - (T12)GENERAL DESCRIPTION: External Oxygen Hydrogen TankNOTE: Identical to T11 with external fuel lines addedModel Scale = 0.015.

DRAWING NUMBER

VL78-000031A

VL78-000041A

DIMENSION:FULL SCALEMODEL SCALELength - IN. (Nose @ $X_T = 309$)186527.975

Max Width (Dia) - IN.

3244.86

Max Depth

Fineness Ratio

5.756175.75617Area - FT²

Max Cross-Sectional

572.5550.1288

Planform

Wetted

Base

WP of Tank Centerline (Z_T) - IN.400.06.000

TABLE III. - Continued.

MODEL COMPONENT : External Tank - T₁₂GENERAL DESCRIPTION : External Oxygen Hydrogen Tank.

NOTE: Has same fuel lines and protuberances as T₁₂. Has a 1208 in.
Radius Tangent Ogive Nose.

Model Scale = 0.015

DRAWING NUMBER : SS-A-01167

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length - IN. (Nose @ $X_T = 220$)	<u>1954.0</u>	<u>29.310</u>
Max Width (Dia.) - IN.	<u>324</u>	<u>4.86</u>
Max Depth	<u></u>	<u></u>
Fineness Ratio	<u>6.031</u>	<u>6.031</u>
Area ft. ²	<u></u>	<u></u>
Max. Cross-Sectional	<u>572.555</u>	<u>0.1288</u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>
WP of Tank Centerline (Z_T), IN.	<u>400.0</u>	<u>6.000</u>

TABLE III. - Continued.

MODEL COMPONENT : EXTERNAL TANK - T18

GENERAL DESCRIPTION : External oxygen-hydrogen tank which is
similar to T12 except that the nose and tangency point have been
shortened by 39 inches full scale.

MODEL SCALE: 0.015

DRAWING NUMBER : SS-A01167

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ~ IN. (Nose @ X_T 348)	<u>1826.0</u>	<u>27.390</u>
Max Width ~ IN.	<u>324.0</u>	<u>4.860</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u>5.636</u>	<u>5.636</u>
Area ~ ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>572.555</u>	<u>0.1288</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of ET centerline (Z_T) ~ In.	<u>400.0</u>	<u>6.000</u>

TABLE III. - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - (S12)

GENERAL DESCRIPTION: Configuration 3A, Data for (1) of (2) sides,
per Rockwell Lines VL77-000036A

Model Scale = 0.015

DRAWING NUMBER VL72-000088D
VL77-000036A

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Includes Nozzle) - IN.	<u>1741.0</u>	<u>26.115</u>
Max Width (Tank Dia) - IN.	<u>142.3</u>	<u>2.135</u>
Max Depth (Aft Shroud) - IN.	<u>192.0</u>	<u>2.880</u>
Fineness Ratio	<u>9.06771</u>	<u>9.06771</u>
Area - FT ²		
Max Cross-Sectional	<u>201.06193</u>	<u>0.0452</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of BSRM Centerline (Z _T) - IN.	<u>400</u>	<u>6.000</u>
FS of BSRM Nose (X _T) - IN.	<u>743</u>	<u>11.145</u>

TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - N₂₅

GENERAL DESCRIPTION: Configuration 4 BSRM Nozzles

MODEL SCALE = 0.015

DRAWING NO. VL72-000088E
VL77-000036A

<u>DIMENSIONS</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Mach No. _____		
Length ~ in.		
Gimbal Point to Exit Plane	<u>141.3</u>	<u>2.120</u>
Throat to Exit Plane	<u> </u>	<u> </u>
Diameter ~ in.		
Exit	<u>141.3</u>	<u>2.120</u>
Throat	<u> </u>	<u> </u>
Inlet	<u> </u>	<u> </u>
Area ~ ft ² .		
Exit	<u>108.89 95</u>	<u>0.0245</u>
Throat	<u> </u>	<u> </u>
Gimbal Point (station) ~ in.		
X	<u>1796.15</u>	<u>26.942</u>
Y	<u>+243.0</u>	<u>+3.645</u>
Z	<u>400.0</u>	<u>6.0</u>
Null Position ~ deg.		
Pitch	<u>0°</u>	<u>0°</u>
Yaw	<u>0°</u>	<u>0°</u>
FS of Nozzle Exit Plane (X _T) IN.	<u>2484</u>	<u>37.260</u>

TABLE III. - Continued.

MODEL COMPONENT: ET Protuberance PT₁DESCRIPTION: LOX Vent Line Fairing on Tank T₁₂ NoseMODEL SCALE: .015DRAWING NO. VL78-000031A

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
DIMENSIONS: Leading edge at X _T	<u>321</u>	<u>4.815</u>
Y _T	<u>0</u>	<u>0</u>
Trailing edge at X _T	<u>947</u>	<u>14.205</u>
Y _T	<u>70</u>	<u>1.053</u>

TABLE III.-- Continued.

MODEL COMPONENT: ET Protuberance PT2DESCRIPTION: LOX feed lines on vehicle 4 tank secured to tank by brackets
with 30-inch spacing (total of 22 brackets)MODEL SCALE: 0.015DRAWING NO. VL78-000031A

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
DIMENSIONS: Leading edge at X_T	<u>947</u>	<u>14.205</u>
Y_T	<u>70</u>	<u>1.053</u>
Trailing edge at X_T	<u>1330</u>	<u>19.950</u>
Y_T	<u>70</u>	<u>1.053</u>
Bracket spacing from $X_T = 997$	<u>50</u>	<u>.85</u>
Centerline of LOX feedline located radially at ϕ	<u>23.5°</u>	

TABLE III. --Continued--

MODEL COMPONENT: ET Protuberance PT₃DESCRIPTION: LH₂ vent line on vehicle 4 tank secured to tank by brackets
with 30-inch spacing (total of 22 brackets)MODEL SCALE: 0.015DRAWING NO. VL78-000031A

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
DIMENSIONS: Leading edge at X_T	<u>947</u>	<u>14.205</u>
Y_T	<u>-70</u>	<u>-1.053</u>
.		
Trailing edge at $-X_T$	<u>1330</u>	<u>19.950</u>
Y_T	<u>-70</u>	<u>-1.053</u>
.		
Bracket spacing from $X_T = 997$	<u>50</u>	<u>.85</u>
Centerline of LH feedline radially located at $\phi =$		<u>-34.5°</u>

TABLE III. - Continued.

MODEL COMPONENT: Attach Structure AT₅GENERAL DESCRIPTION: Forward Orbiter/ET Attach Structure (2 member structure)

Model Scale: 0.015

DRAWING NO. VL72-000088D

DIMENSION:	MEMBER	FULL SCALE	MODEL SCALE
	#1		
	X ₀	<u>391</u>	<u>5.865</u>
	Y ₀	<u>0</u>	<u>0</u>
	Z ₀	<u>LWR ML</u>	<u>LWR ML</u>
	X _T	<u>1132</u>	<u>16.980</u>
	Y _T	<u>44</u>	<u>0.66</u>
	Z _T	<u>562</u>	<u>8.43</u>
	#2		
	X ₀	<u>391</u>	<u>5.865</u>
	Y ₀	<u>0</u>	<u>0</u>
	Z ₀	<u>LWR ML</u>	<u>LWR ML</u>
	X _T	<u>1132</u>	<u>16.980</u>
	Y _T	<u>-44</u>	<u>-.66</u>
	Z _T	<u>562</u>	<u>8.43</u>
Diameter of Members:		<u>10.2</u>	<u>0.153</u>

TABLE III. - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₂GENERAL DESCRIPTION: Left rear orbiter/ET attach structure (2 member structure)

MODEL SCALE: 0.015

DRAWING NUMBER: VL78-000050

DIMENSIONS: - inches

<u>MEMBER</u>		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
#1	X _O	<u>1303</u>	<u>19.545</u>
	Y _O	<u>- 96</u>	<u>- 1.440</u>
	Z _O	<u>258</u>	<u>3.870</u>
	X _T	<u>1859</u>	<u>27.885</u>
	Y _T	<u>- 115</u>	<u>- 1.725</u>
	Z _T	<u>510</u>	<u>7.650</u>
	DIAMETER	<u>12.0</u>	<u>0.180</u>
#2	X _O	<u>1317</u>	<u>19.755</u>
	Y _O	<u>- 96</u>	<u>- 1.440</u>
	Z _O	<u>258</u>	<u>3.870</u>
	X _T	<u>2058</u>	<u>30.870</u>
	Y _T	<u>- 115</u>	<u>- 1.725</u>
	Z _T	<u>510</u>	<u>7.650</u>
	DIAMETER	<u>8.0</u>	<u>0.120</u>

TABLE III. - Continued.

MODEL COMPONENT: ATTACH STRUCTURE- AT₁₃GENERAL DESCRIPTION: Right rear orbiter/ET attach structure (3 member structure)

MODEL SCALE: 0.015

DRAWING NUMBER: VL78-000050

DIMENSIONS: - inches

MEMBER		FULL SCALE	MODEL SCALE
#1	X _O	1313	19.695
	Y _O	+ 96	+ 1.44
	Z _O	258	3.870
	X _T	1859	27.885
	Y _T	115	1.725
	Z _T	510	7.650
	DIAMETER	12.0	0.180
#2	X _O	1317	19.755
	Y _O	+ 96	1.440
	Z _O	258	3.870
	X _T	2058	30.870
	Y _T	115	1.725
	Z _T	510	7.650
	DIAMETER	8.0	0.120
#3	X _O	1317	19.755
	Y _O	96	1.440
	Z _O	258	3.870
	X _T	2058	30.870
	Y _T	0	0
	Z _T	566	8.490
	DIAMETER	8.0	0.120

TABLE III. - Continued.

MODEL COMPONENT: Attach Structure - AT₁₄

GENERAL DESCRIPTION: Forward SRB/ET attach structure

Model Scale: 0.015

DRAWING NO: VL77-000051A

DIMENSION: - inches

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
X _B	<u>404</u>	<u>6.060</u>
Y _B	<u>± 177</u>	<u>2.655</u>
Z _B	<u>0</u>	<u>0</u>
X _T	<u>947</u>	<u>14.205</u>
Y _T	<u>± 167</u>	<u>2.505</u>
Z _T	<u>400</u>	<u>6.000</u>

TABLE III. - Continued.

MODEL COMPONENT: Attach Structure AT9GENERAL DESCRIPTION: Aft SRB/ET attach structure (3 member structure to each SRB)

Model Scale: 0.015

DRAWING NO: VL72-000106

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X _B	<u>1515</u>	<u>22.725</u>
		Y _B	<u>± 56</u>	<u>± .840</u>
		Z _B	<u>50</u>	<u>.750</u>
		X _T	<u>2058</u>	<u>30.870</u>
		Y _T	<u>± 158</u>	<u>2.370</u>
		Z _T	<u>450</u>	<u>6.75</u>
	#2	X _B	<u>1515</u>	<u>22.725</u>
		Y _B	<u>± 76</u>	<u>± 1.140</u>
		Z _B	<u>18</u>	<u>.270</u>
		X _T	<u>2058</u>	<u>30.870</u>
		Y _T	<u>160</u>	<u>2.400</u>
		Z _T	<u>445</u>	<u>6.675</u>
	#3	X _B	<u>1515</u>	<u>22.725</u>
		Y _B	<u>± 56</u>	<u>± .840</u>
		Z _B	<u>- 50</u>	<u>- .750</u>
		X _T	<u>2058</u>	<u>30.870</u>
		Y _T	<u>+ 158</u>	<u>± 2.370</u>
		Z _T	<u>350</u>	<u>5.250</u>
Diameter of Members:			<u>6.02</u>	<u>0.093</u>

TABLE III. - Continued.

MODEL COMPONENT Feed line FL₁DESCRIPTION: LOX feed line between ET and orbiterMODEL SCALE: 0.015DRAWING NO: VL78-000050

DIMENSIONS: - inches	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Q at: X_T	<u>2063.5</u>	<u>30.953</u>
r_T	<u>70</u>	<u>1.053</u>
X_o	<u>1330.5</u>	<u>19.958</u>
	<u>70</u>	<u>1.053</u>
Diameter	<u>18.5</u>	<u>.278</u>

TABLE III. - Continued.

MODEL COMPONENT: Feed line FL₂
 DESCRIPTION: LH₂ feed line between ET and orbiter
 MODEL SCALE: 0.015
 DRAWING NO.: VL78-000050

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
ξ at X_T	<u>2063.5</u>	<u>30.953</u>
Y_T	<u>-70</u>	<u>-1.053</u>
X_O	<u>1330.5</u>	<u>19.958</u>
Y_O	<u>-70</u>	<u>-1.053</u>
Diameter	<u>18.5</u>	<u>.278</u>

TABLE III. - Continued.

MODEL COMPONENT: SRB Protuberance PS₁DESCRIPTION: Electrical tunnel fairing on top of each SRBMODEL SCALE: 0.015DRAWING NO: None

DIMENSION: (Data for 1 of 2)

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X_B	<u>467</u>	<u>7.001</u>
E of tunnel Y_B	<u>0</u>	<u>0</u>
Trailing edge at X_B	<u>1820</u>	<u>27.30</u>
Height	<u>3</u>	<u>.045</u>
Width	<u>6</u>	<u>.090</u>
\angle_{LE} , deg.	<u>72</u>	<u>72</u>

TABLE III. - Continued.

MODEL COMPONENT: SRB Protuberance PS₂

DESCRIPTION: SRB/ET attach ring

MODEL SCALE: 0.015

DRAWING NO.: VL77-000036A

DIMENSIONS: (Data for 1 of 2).

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
C at X _B	<u>1515</u>	<u>22.725</u>
Width	<u>10</u>	<u>.15</u>
Height	<u>10</u>	<u>.15</u>

TABLE III. - Continued.

MODEL COMPONENT: SRB Protuberance PS₃
 DESCRIPTION: Separation rocket fairing on each SRB nozzle shroud located
30° inboard from top centerline.
 MODEL SCALE: 0.015
 DRAWING NO.: VL77-000036A

DIMENSIONS: (Data for 1 of 2)

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X_B	<u>1796</u>	<u>26.940</u>
Trailing edge at X_B	<u>1889</u>	<u>29.335</u>

Radial location is 30° inboard from top centerline.

TABLE III. - Continued.

MODEL COMPONENT: ET Protuberance PT₅
 DESCRIPTION: LOX feed line fairing used on nose of tank T₁₃ (tangent
ogive nose)
 MODEL SCALE: 0.015
 DRAWING NO. NONE

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
DIMENSIONS: Leading edge at X _T	<u>232</u>	<u>3.48</u>
Y _T	<u>0</u>	<u>0</u>
Trailing edge at X _T	<u>947</u>	<u>14.205</u>
	<u>70</u>	<u>1.053</u>

TABLE III. - Continued.

MODEL COMPONENT: Fairing FR₁

DESCRIPTION: Umbilical door fairing around LOX and LH₂ feedlines between orbiter and ET. Leading edge of fairing attaches to bottom of orbiter.

MODEL SCALE: 0.015

DRAWING NO.: VL78-000050

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X ₀	<u>1214 .</u>	<u>18.210</u>
Length	<u>154 .</u>	<u>2.310</u>
Width	<u>226</u>	<u>3.390</u>

TABLE III. - Concluded.

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ET PROTUBERANCE - PI₇

GENERAL DESCRIPTION: LOX Vent line fairing on TANK - T₁₈ nose.

MODEL SCALE: 0.015

DRAWING NO.: NONE

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X_T	<u>360</u>	<u>5.4</u>
Y_T	<u>0</u>	<u>0</u>
Trailing edge at X_T	<u>947</u>	<u>14.205</u>
Y_T	<u>70</u>	<u>1.053</u>

Table IV Pressure Weighting Factors

<u>RUN</u>	<u>LOCATION OF BALANCE</u>	<u>WF1</u>	<u>WF2</u>	<u>WF3</u>	<u>WF4</u>	<u>WF5</u>	<u>WF6</u>
1	TANK	1	0	1	0	0	0
2	↑	↑	↑	↑	↑	↑	↑
3	↑	↑	↑	↑	↑	↑	↑
4	↑	↑	↑	↑	↑	↑	↑
5	↑	↑	↑	↑	↑	↑	↑
6	↑	↑	↑	↑	↑	↑	↑
7	↑	↑	↑	↑	↑	↓	↓
8	↑	↑	↑	↑	↑	0	0
9	↑	↑	↑	↑	↑	1	1*
10	↑	↑	↑	↑	↑	↑	↑
11	↑	↑	↑	↑	↑	↑	↑
12	↑	↑	↑	↑	↑	↑	↑
13	↑	↑	↑	↑	↑	↑	↑
14	↓	↑	↓	↑	↓	↓	↓
15	TANK	↑	0	↑	0	1	1*
16	ORB	↑	1	↑	1	0	0
17	↑	↑	↑	↑	↑	↑	↑
18	↑	↑	↑	↑	↑	↑	↑
19	↑	↑	↑	↑	↑	↑	↑
20	↑	↑	↑	↑	↑	↑	↑
21	↑	↑	↑	↑	↑	↑	↑
22	↑	↑	↑	↑	↑	↓	↓
23	↑	↑	↑	↑	↑	0	0
24	↑	↑	↑	↑	↑	1	1
25	↑	↑	↑	↑	↑	↑	↑
30	↑	↑	↑	↑	↑	↑	↑
31	↑	↑	↑	↑	↑	↑	↑
33	↑	↑	↑	↑	↑	↑	↑
34	↑	↑	↑	↑	↑	↑	↑
35	↑	↑	↑	↑	↑	↑	↑
37	↑	↑	↑	↑	↑	↑	↑
38	↑	↑	↑	↑	↑	↑	↑
39	↑	↑	↑	↑	↑	↑	↑
41	↑	↑	↑	↑	↑	↑	↑
42	↑	↑	↑	↑	↑	↑	↑
43	↑	↑	↑	↑	↑	↑	↑
44	↑	↑	↑	↑	↑	↑	↑
45	↑	↑	↑	↑	↑	↑	↑
46	↑	↑	↑	↑	↑	↑	↑
47	↑	↑	↑	↑	↑	↑	↑
48	↑	↑	↑	↑	↑	↑	↑
49	↑	↑	↑	↑	↑	↑	↑
50	↓	↓	↓	↓	↓	↓	↓
51	ORB	1	1	1	1	1	1
52	↑	↑	↑	↑	↑	↑	↑

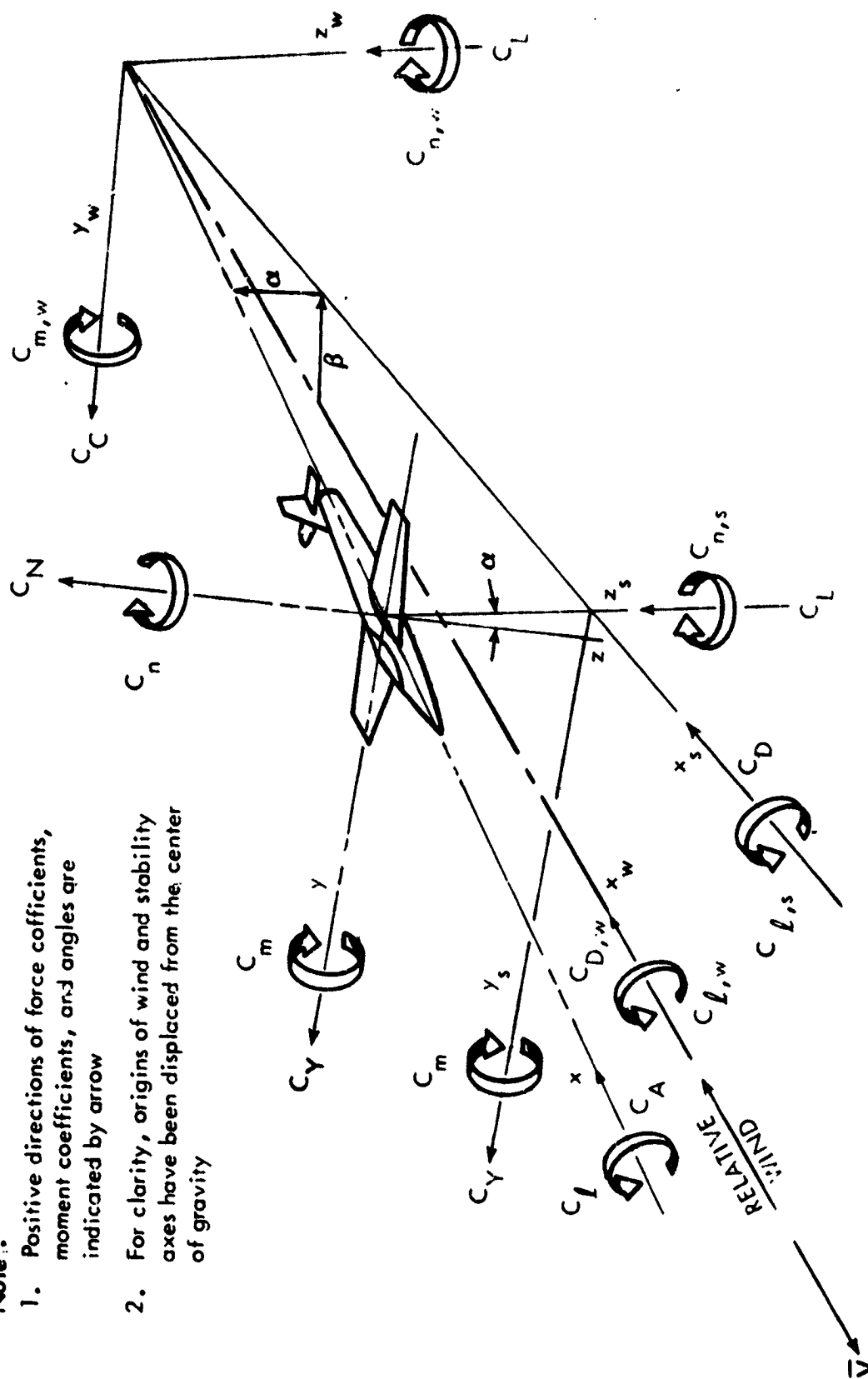
*USE C_{P5} FOR C_{P6}

Table IV (Cont'd)

<u>RUN</u>	<u>LOCATION OF BALANCE</u>	<u>WF1</u>	<u>WF2</u>	<u>WF3</u>	<u>WF4</u>	<u>WF5</u>	<u>WF6</u>
53	ORB	1	1	1	1	1	1
54	↑	↑	↑	↑	↑	↑	↑
55	↑	↑	↑	↑	↑	↑	↑
56	↑	↑	↑	↑	↑	↑	↑
57	↑	↑	↑	↑	↑	↑	↑
58	↑	↑	↑	↑	↑	↑	↑
59	↑	↑	↑	↑	↑	↑	↑
60	↑	↑	↑	↑	↑	↑	↑
61	↑	↑	↑	↑	↑	↑	↑
62	↓	↓	↓	↓	↓	↓	↓
63	↓	↓	↓	↓	↓	↓	↓
64	ORB	1	1	1	1	1	1
101	TANK	1	0	1	1	1	0
102	↑	↑	↑	↑	↑	↑	↑
105	↑	↑	↑	↑	↑	↑	↑
106	↑	↑	↑	↑	↑	↑	↑
107	↑	↑	↑	↑	↑	↑	↑
108	↓	↓	↓	↓	↓	↓	↓
111	↑	↑	↑	↑	↑	↑	↑
112	TANK	↑	0	↑	↑	↑	0
113	ORB	↑	1	↑	↑	↑	1
114	↑	↑	↑	↑	↑	↑	↑
117	↑	↑	↑	↑	↑	↑	↑
118	↑	↑	↑	↑	↑	↑	↑
119	↑	↑	↑	↑	↑	↑	↑
120	↑	↑	↑	↑	↑	↑	↑
121	↑	↑	↑	↑	↑	↑	↑
125	↑	↑	↑	↑	↑	↑	↑
125	↑	↑	↑	↑	↑	↑	↑
126	↑	↑	↑	↑	↑	↑	↑
127	↑	↑	↑	↑	↑	↑	↑
128	↑	↑	↑	↑	↑	↑	↑
129	↑	↑	↑	↑	↑	↑	↑
130	↑	↑	↑	↑	↑	↑	↑
131	↑	↑	↑	↑	↑	↑	↑
132	↑	↑	↑	↑	↑	↑	↑
133	↑	↑	↑	↑	↑	↑	↑
134	↑	↑	↑	↑	↑	↑	↑
135	↑	↑	↑	↑	↑	↑	↑
136	↑	↑	↑	↑	↑	↑	↑
137	↑	↑	↑	↑	↑	↑	↑
138	↑	↑	↑	↑	↑	↑	↑
139	↑	↑	↑	↑	↑	↑	↑
140	↓	↓	↓	↓	↓	↓	↓
141	↓	↓	↓	↓	↓	↓	↓
142	ORB	1	1	1	1	1	1

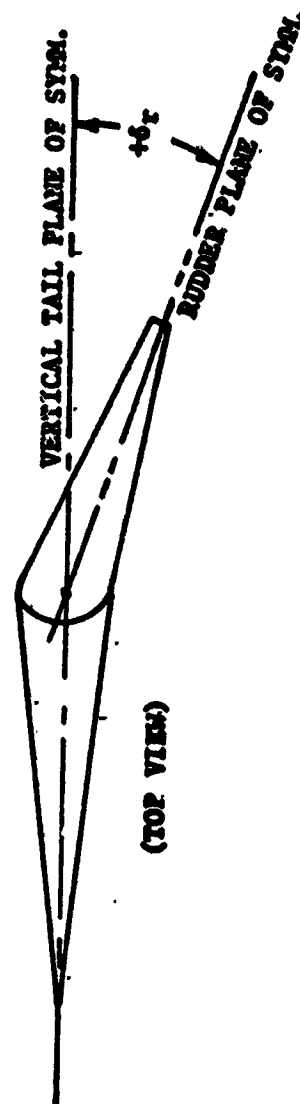
Note::

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



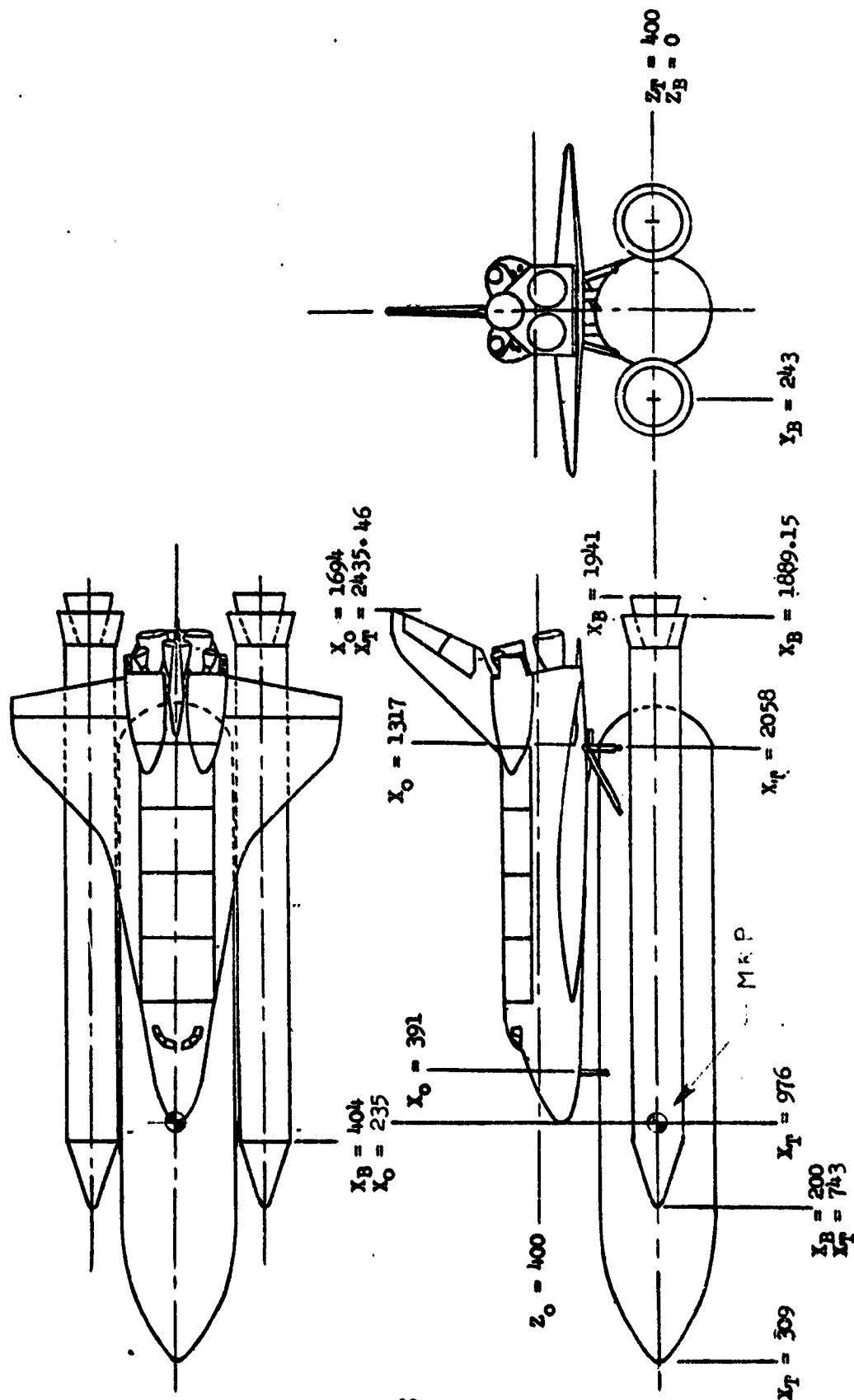
a. Body and stability axes

Figure 1. - Axis systems.



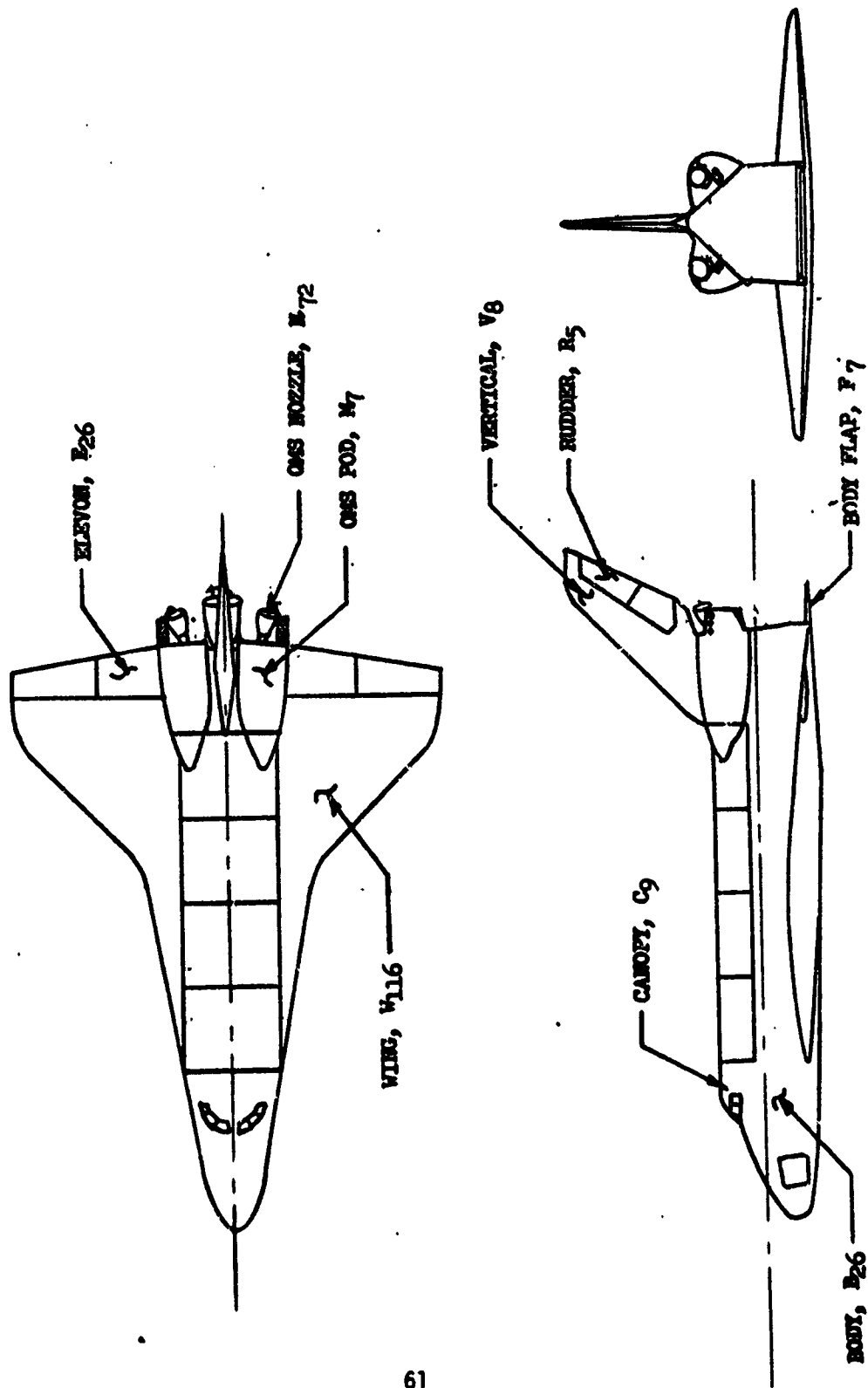
b. Rudder Deflection Angle (δ_r) Defined

Figure 1. - Concluded.



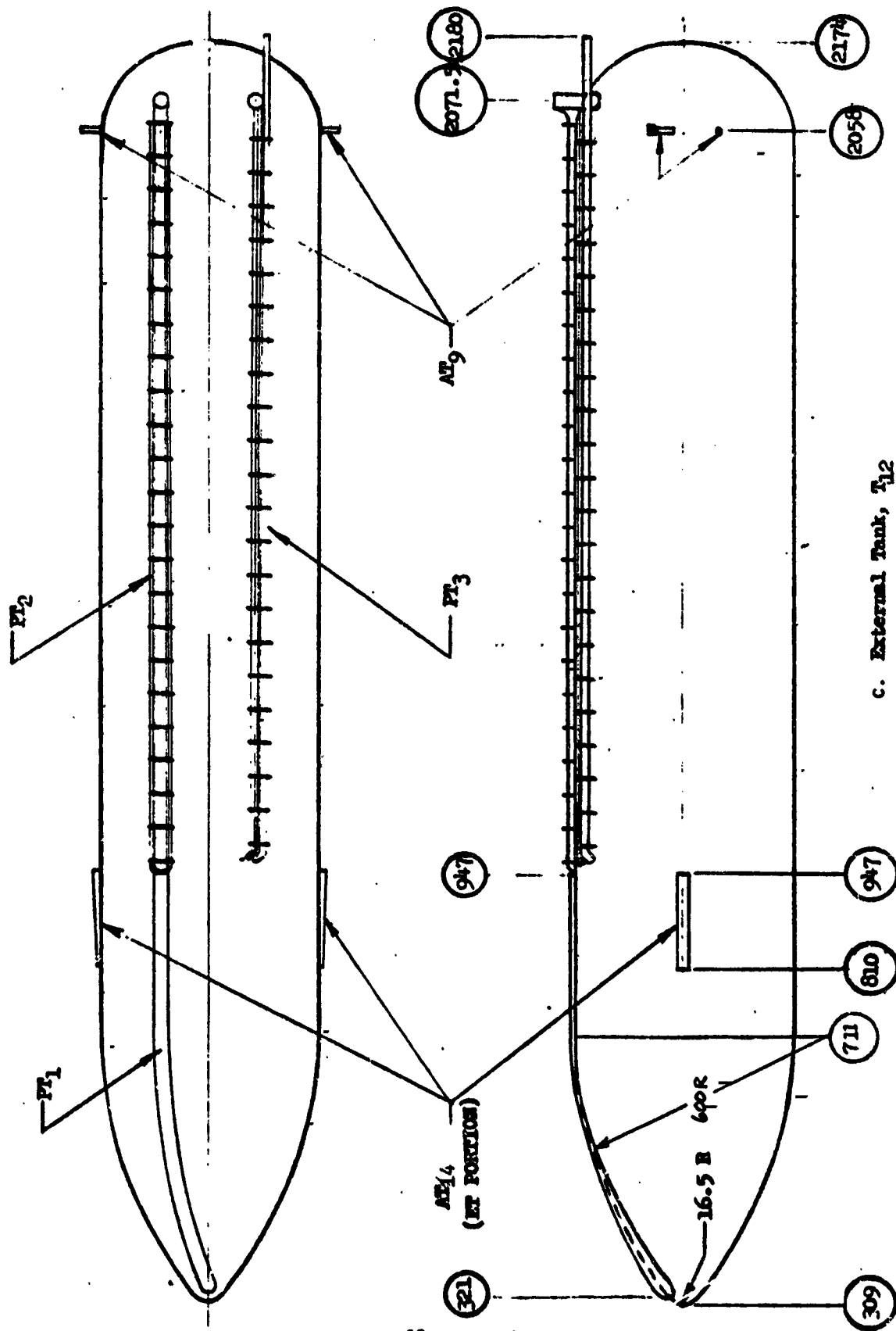
a. Mated Vehicle

Figure 2. - Model sketches.



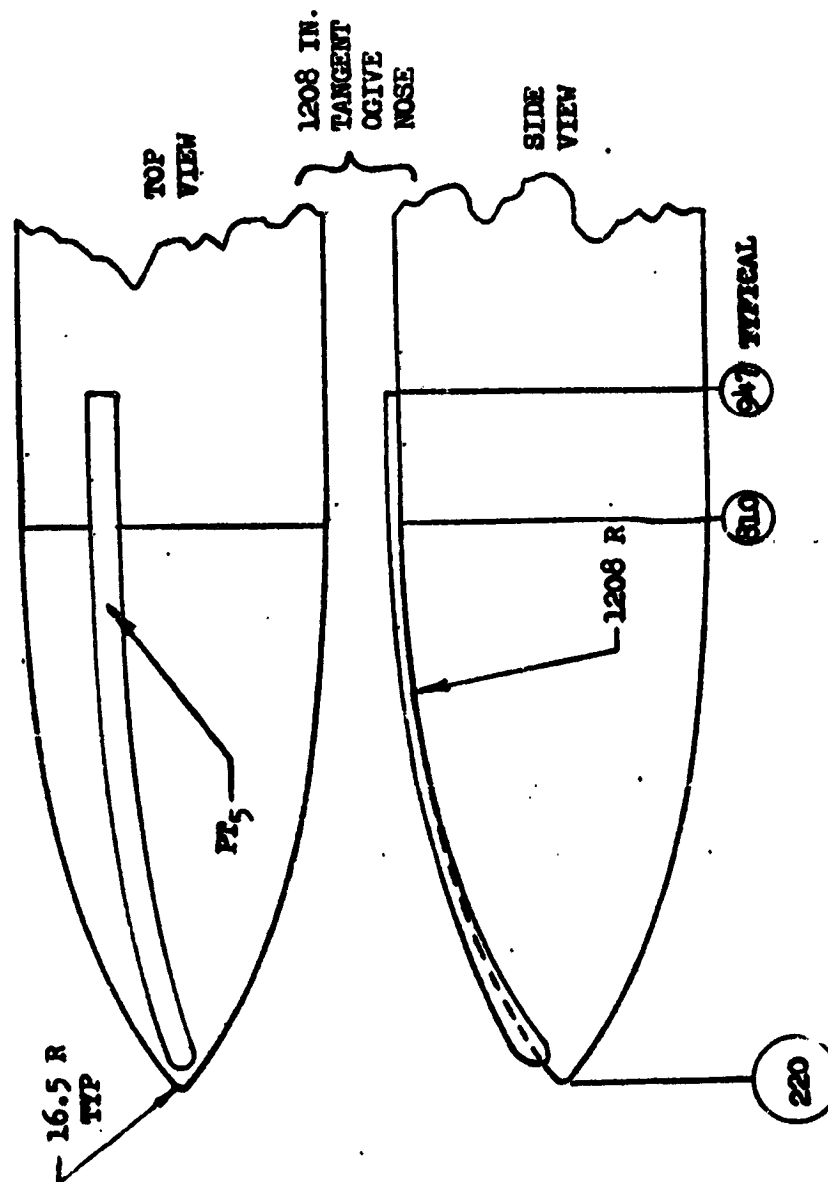
b. Orbiter Three View

Figure 2.- Continued.



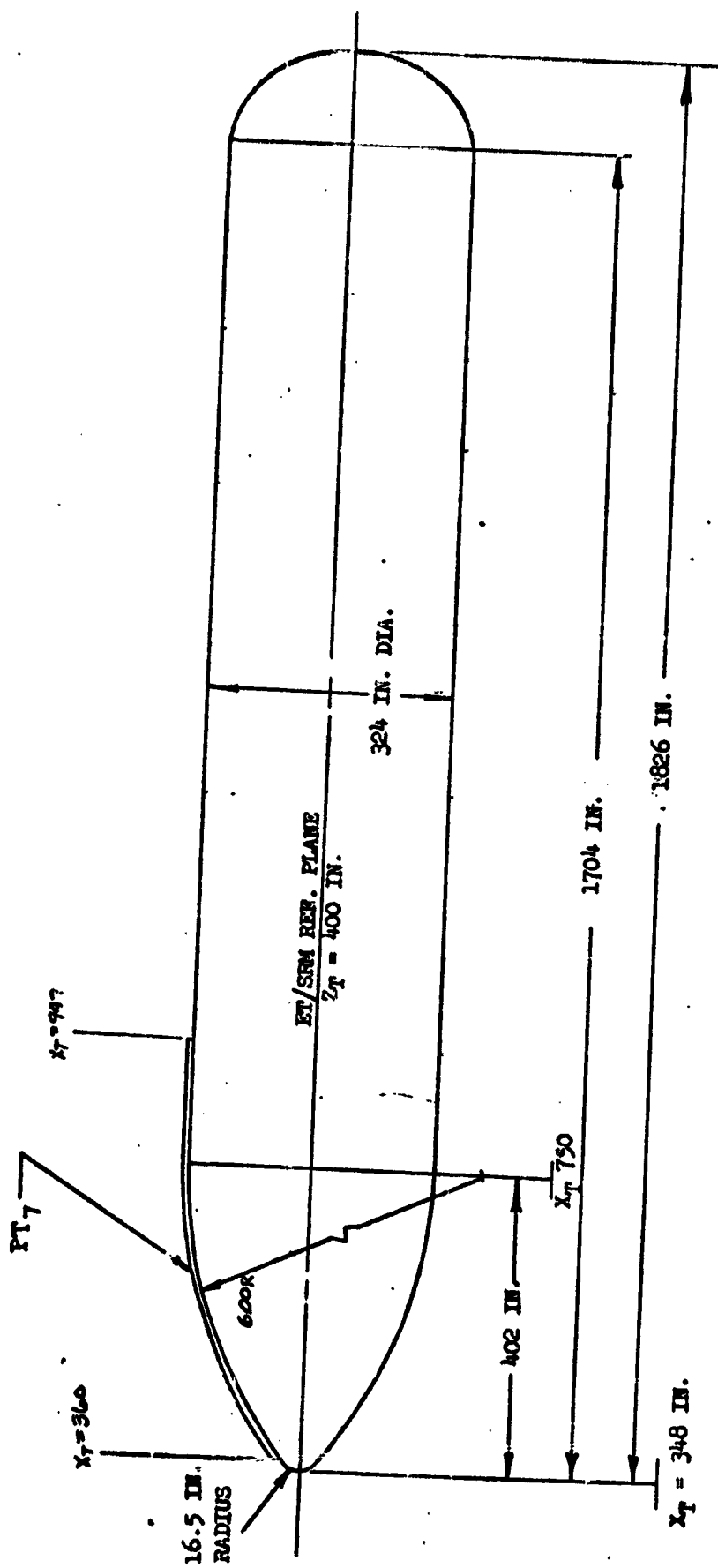
c. External Tank, T₁₂

Figure 2. - Continued.

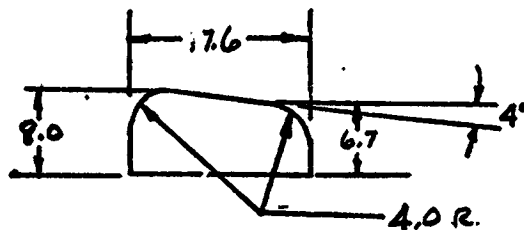


d. External Tank Nose T₁₃

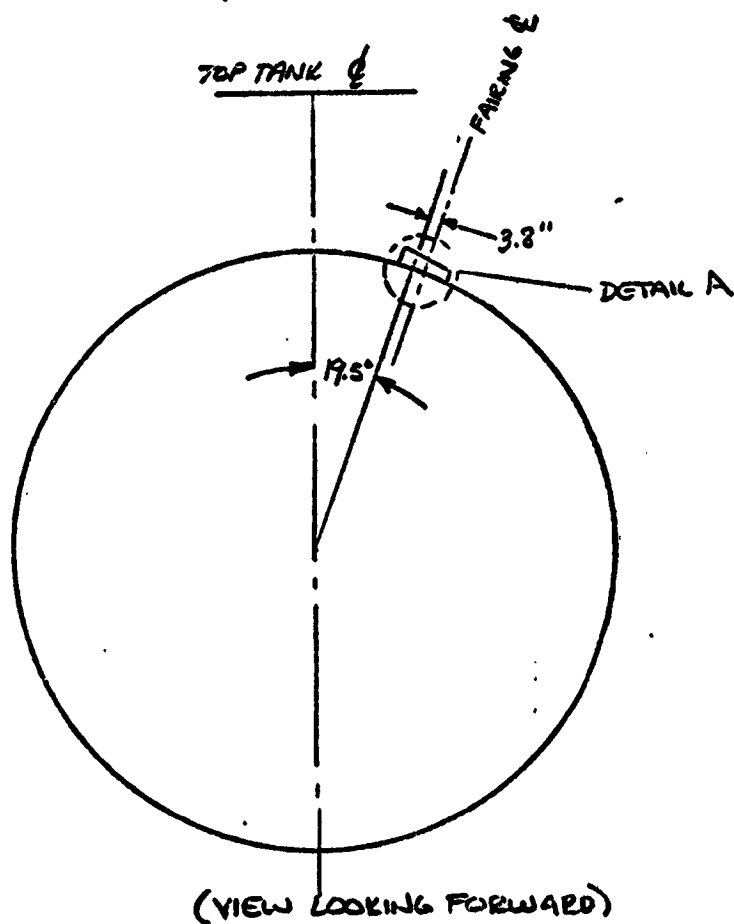
Figure 2. - Continued.



e. External Tank T₁₈
Figure 2. - Continued.

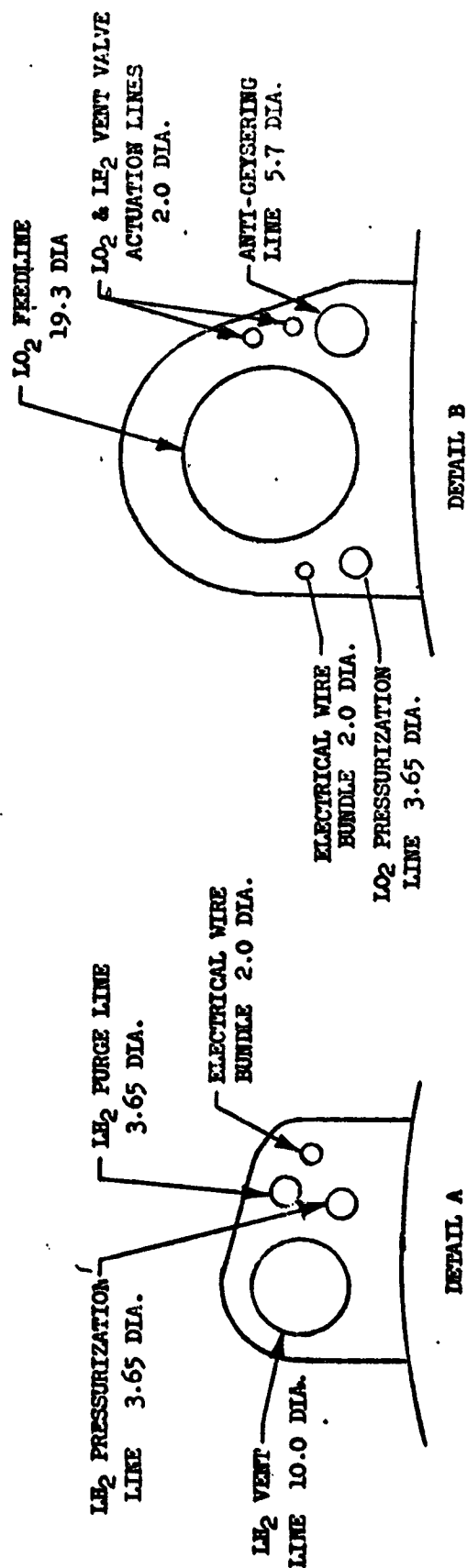


DETAIL A



f. LOX Ventline Fairing (PT₁, PT₃, PT₅, PT₇)

Figure 2. - Continued.



66

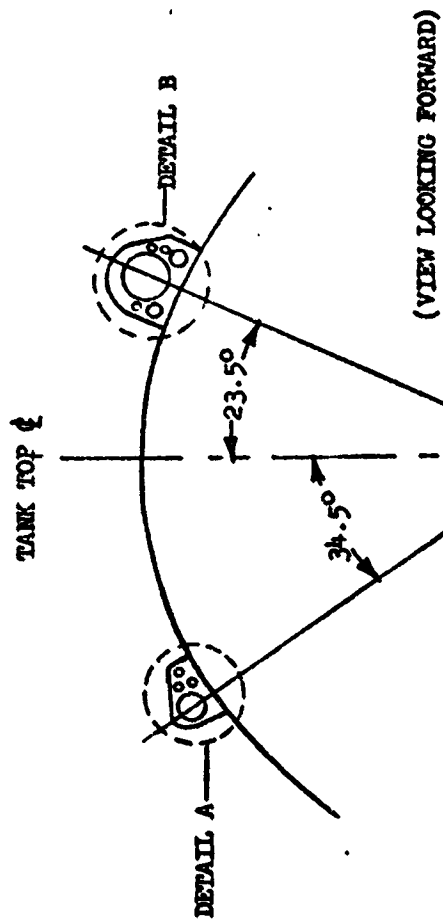
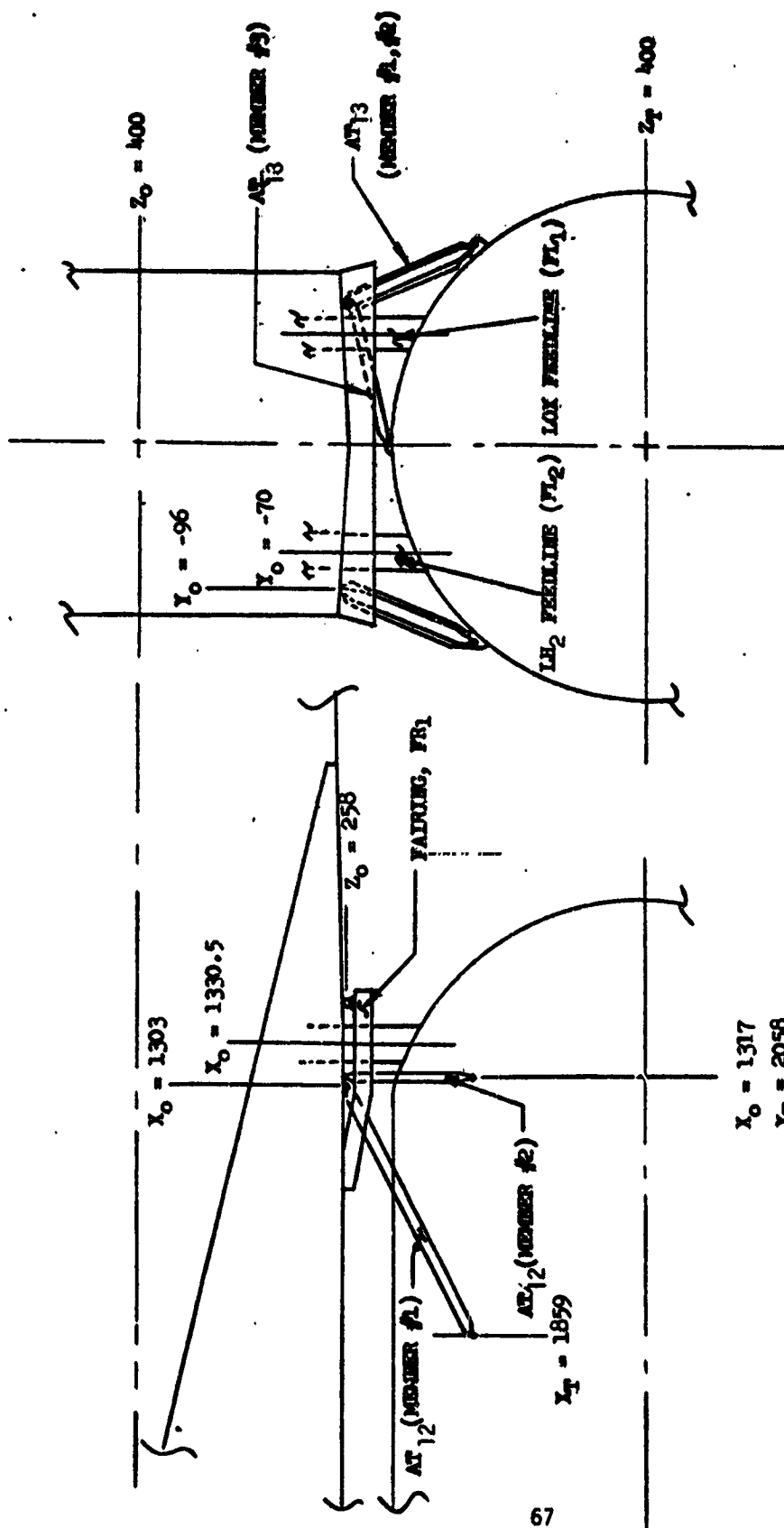
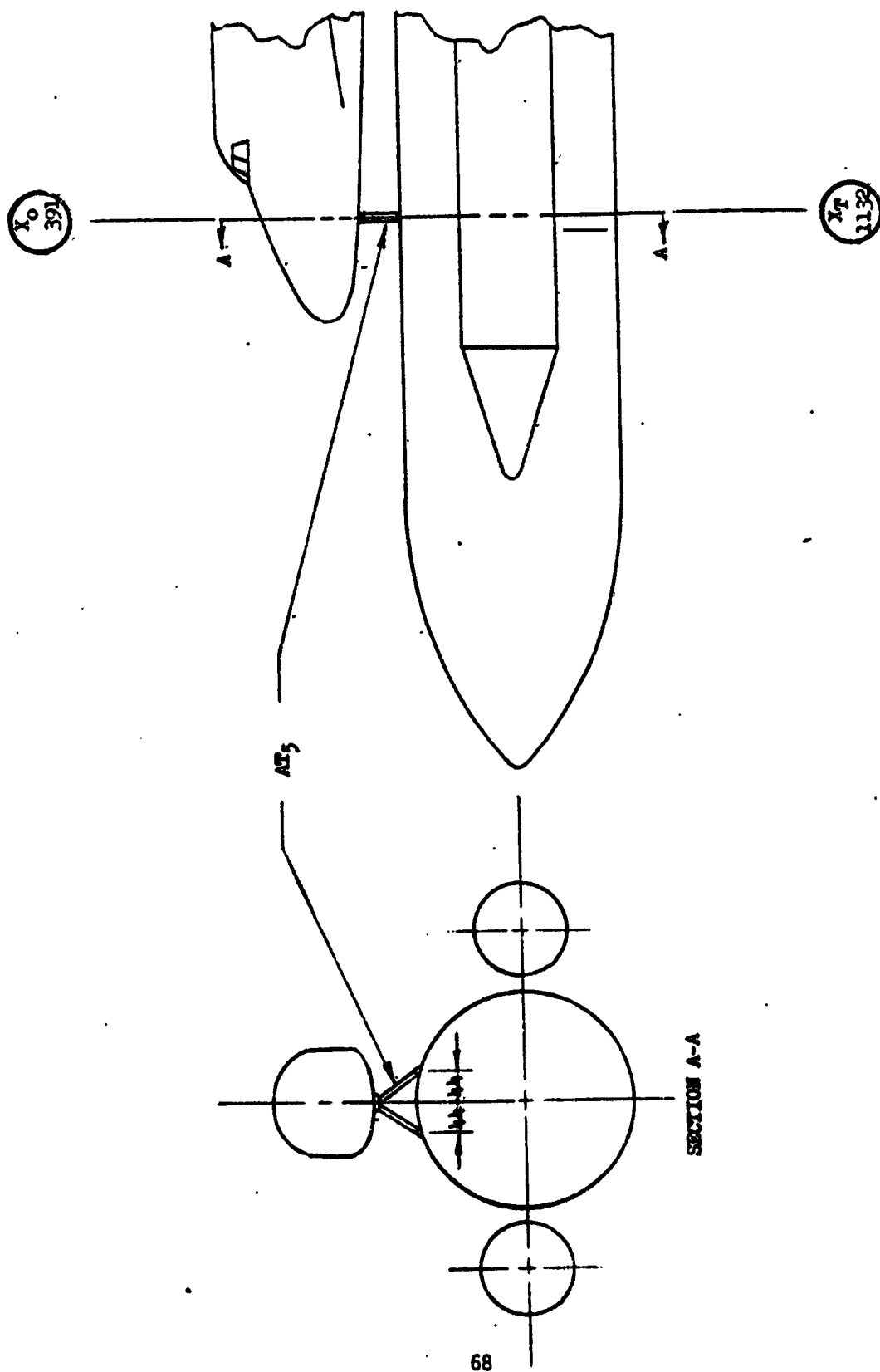


Figure 2. - Continued.
g. ET Protuberance Brackets for PT₂ and PT₃



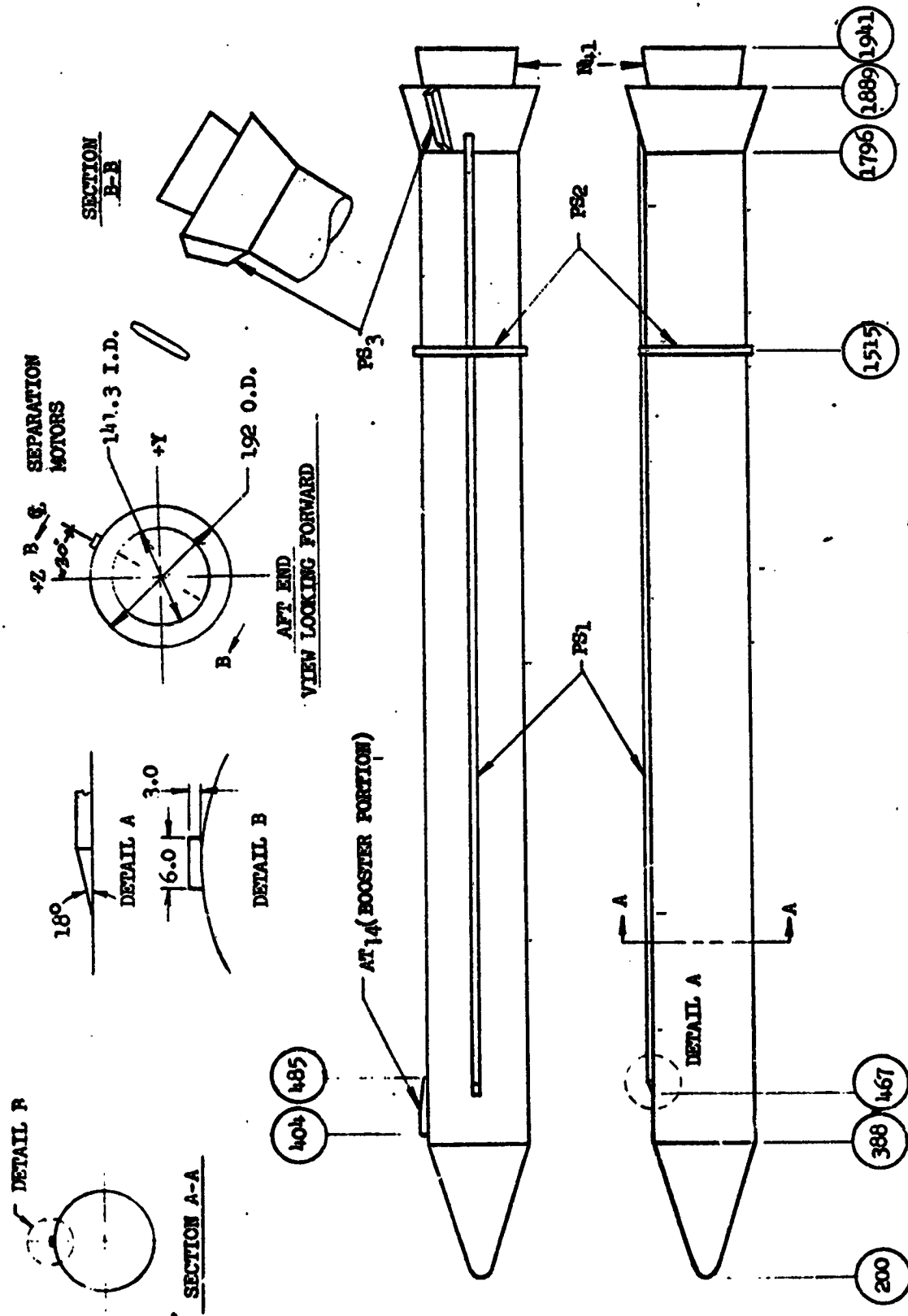
h. Aft Orbiter/ET Attach Hardware

Figure 2. - Continued.



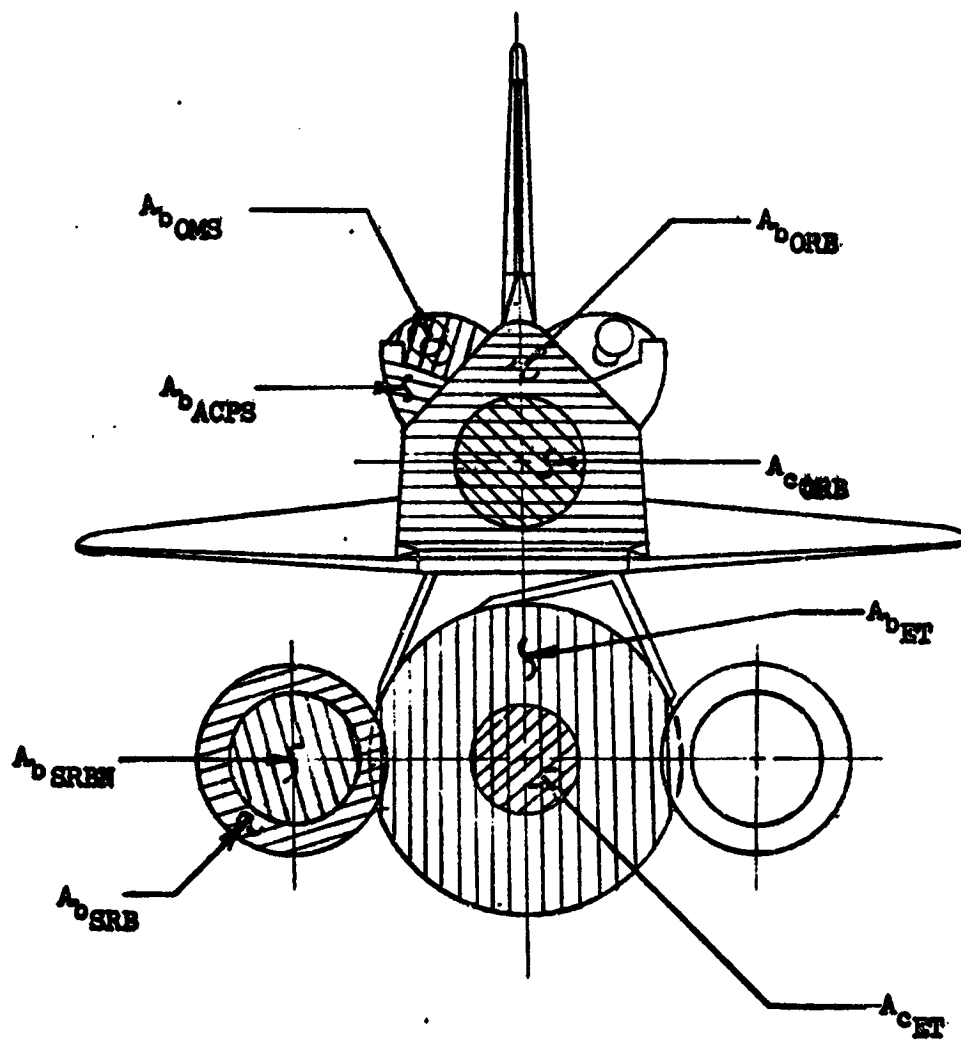
1. Front Orbiter/EF Attach Structure, AT5

Figure 2. - Continued.

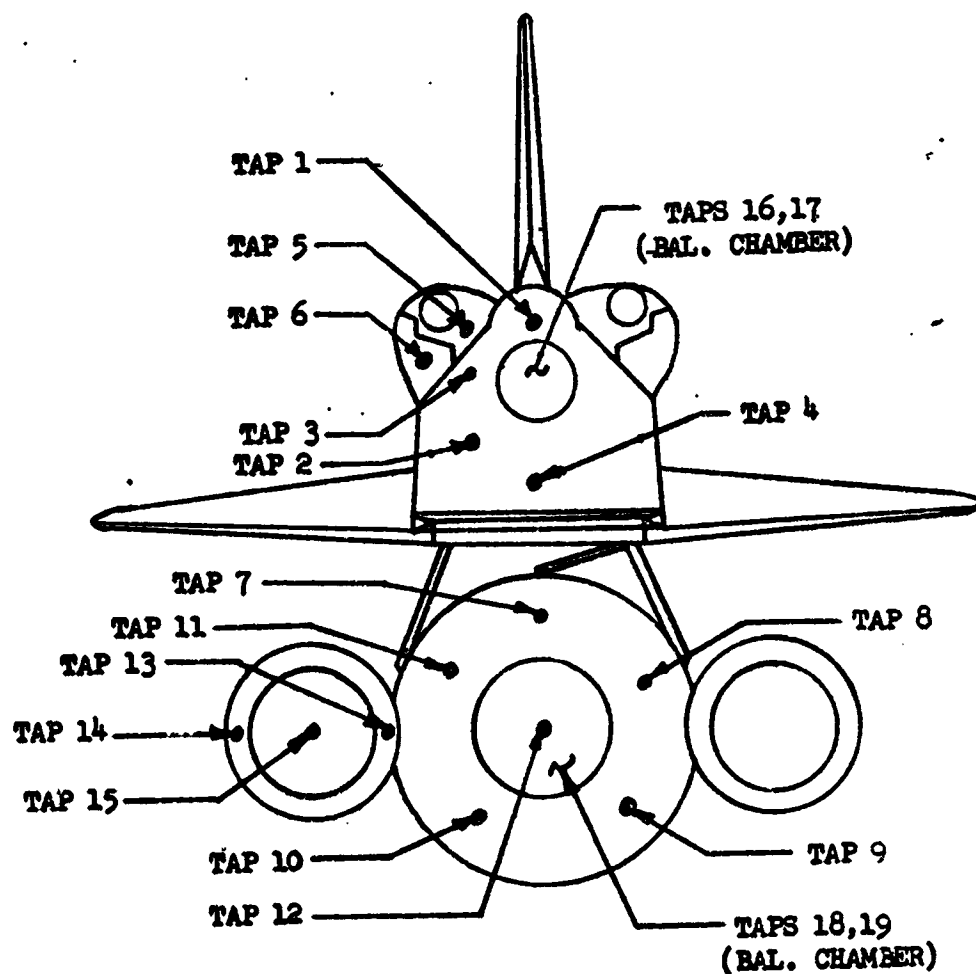


j. Solid Rocket Booster, S₁₂

Figure 2. - Continued.

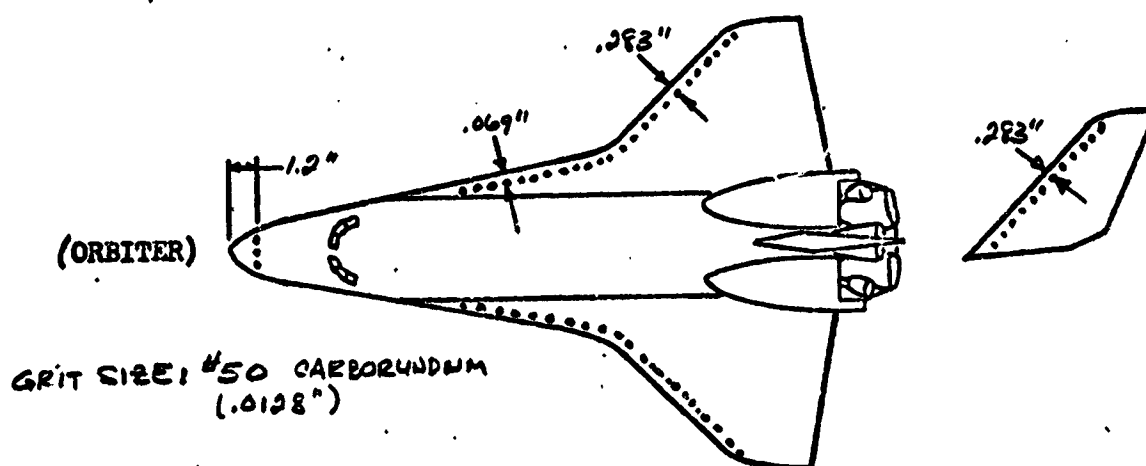
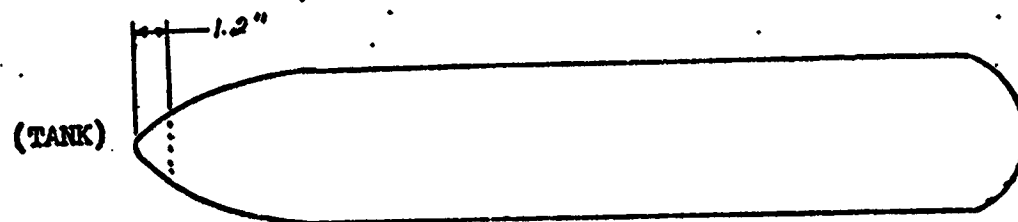
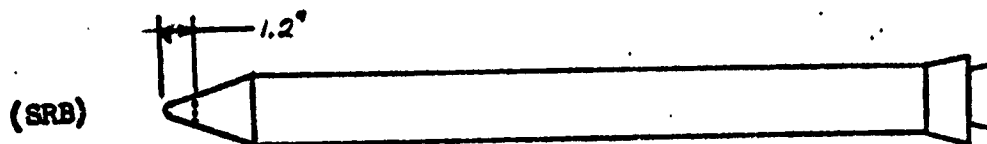


k. Definition of Model Base and Cavity Areas
Figure 2. - Continued.



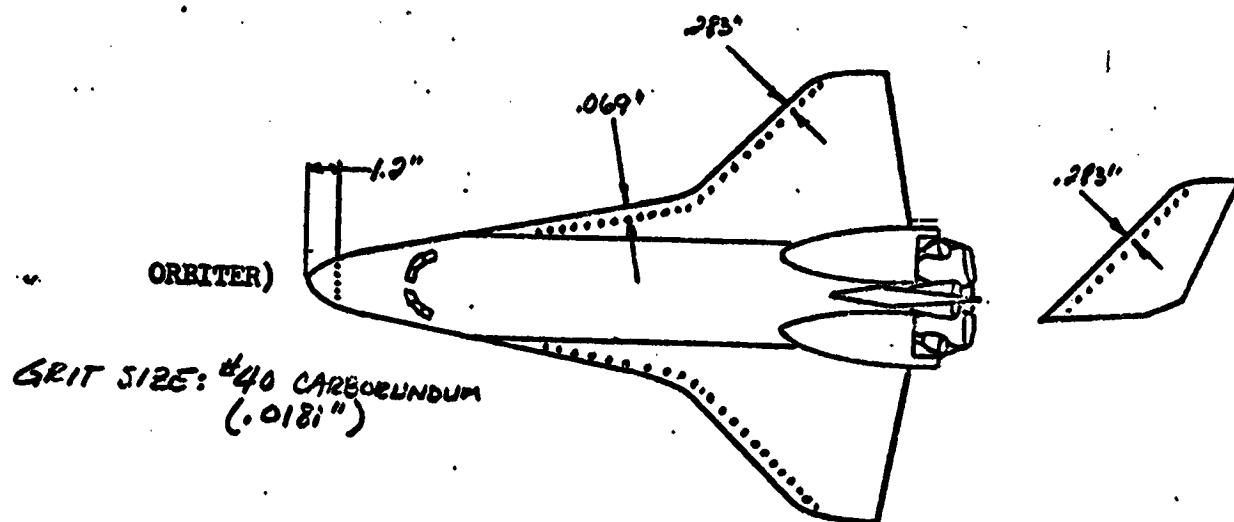
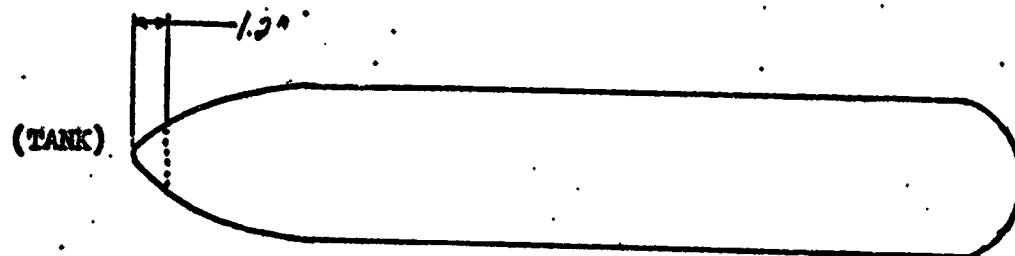
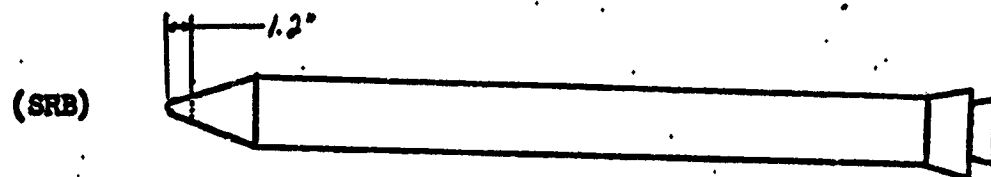
1. Base Pressure Tap Locations

Figure 2. - Continued.



m. Transition Strip Locations $X_{(19)}$
(IA42A)

Figure 2. - Continued.



n. Transition Strip Locations $X_{(24)}$
(IA4JB)

Figure 2. - Concluded.



a. Rear Three-Quarter View
Figure 3. - Model installation photographs

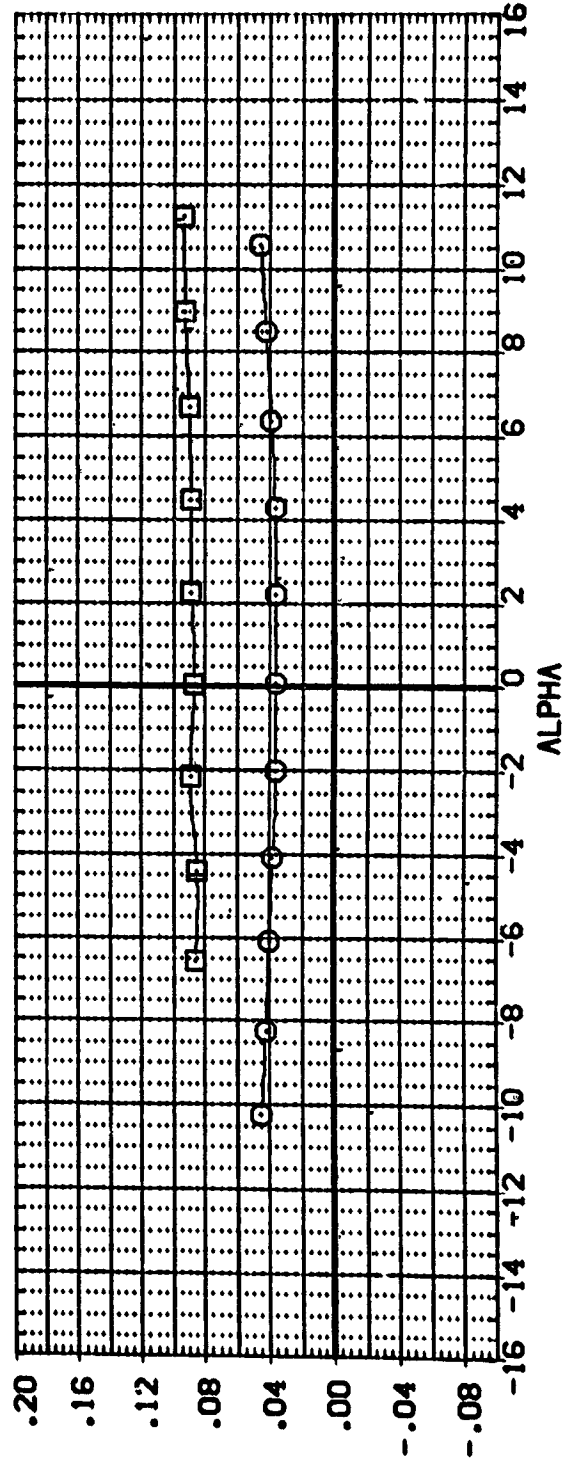
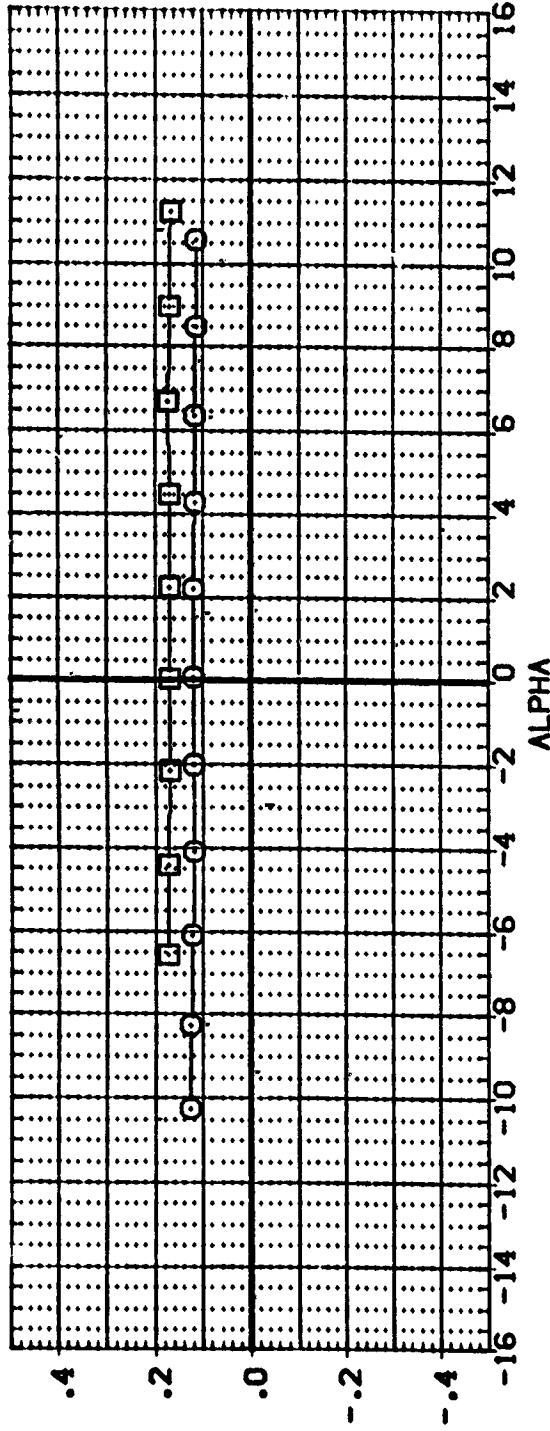


b. Side view
Figure 3. - Concluded.

DATA FIGURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION TIPI BETA RUDDER REFERENCE INFORMATION

(C06001)	LRC LPVT 1056/1073 1A42A/B	TIPI	.000	.000	SREF 2650.0000 SO. FT.
(M06003)	LRC LPVT 1056/1073 1A42A/B	TIPI	.000	.000	LREF 1290.3000 INCHES
(M06005)	DATA NOT AVAILABLE		.000	.000	BREF 1290.3000 INCHES
(M06007)	DATA NOT AVAILABLE		.000	.000	YMRP 976.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 INCHES



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 1.60

PAGE

1

REFERENCE INFORMATION

SREF	2690.0000	50. FT
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XPRP	976.0000	INCHES
YPRP	400.0000	INCHES
ZPRP	400.0000	INCHES
SCALE	.0150	SCALE

BETA

RUDER	.000
	.000
	.000
	.000
	.000

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

DATA NOT AVAILABLE

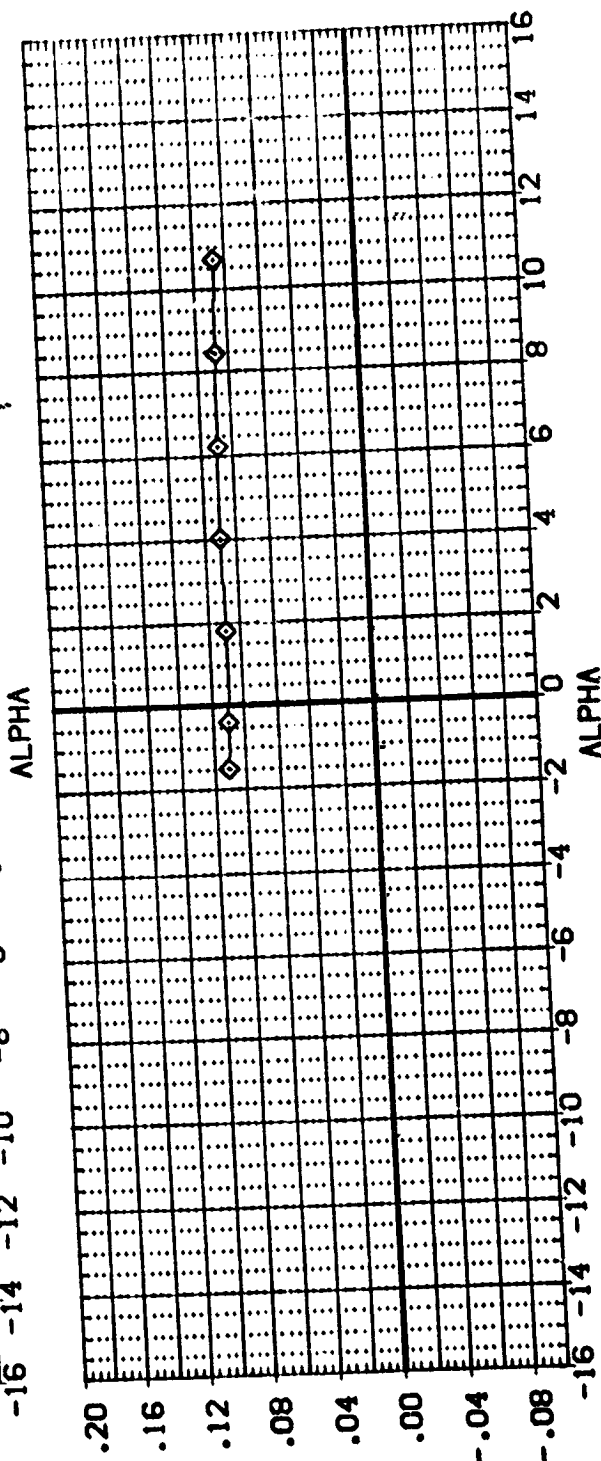
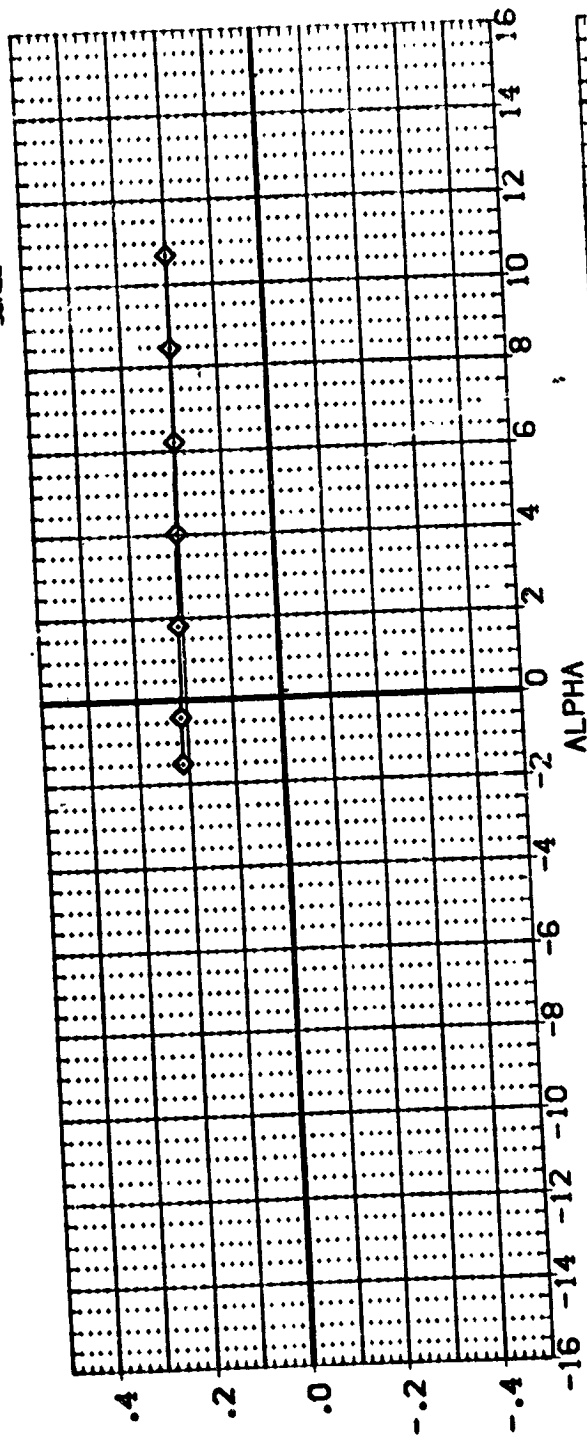
DATA NOT AVAILABLE

LRC UPRT 1056/1073

DATA NOT AVAILABLE

TIP101

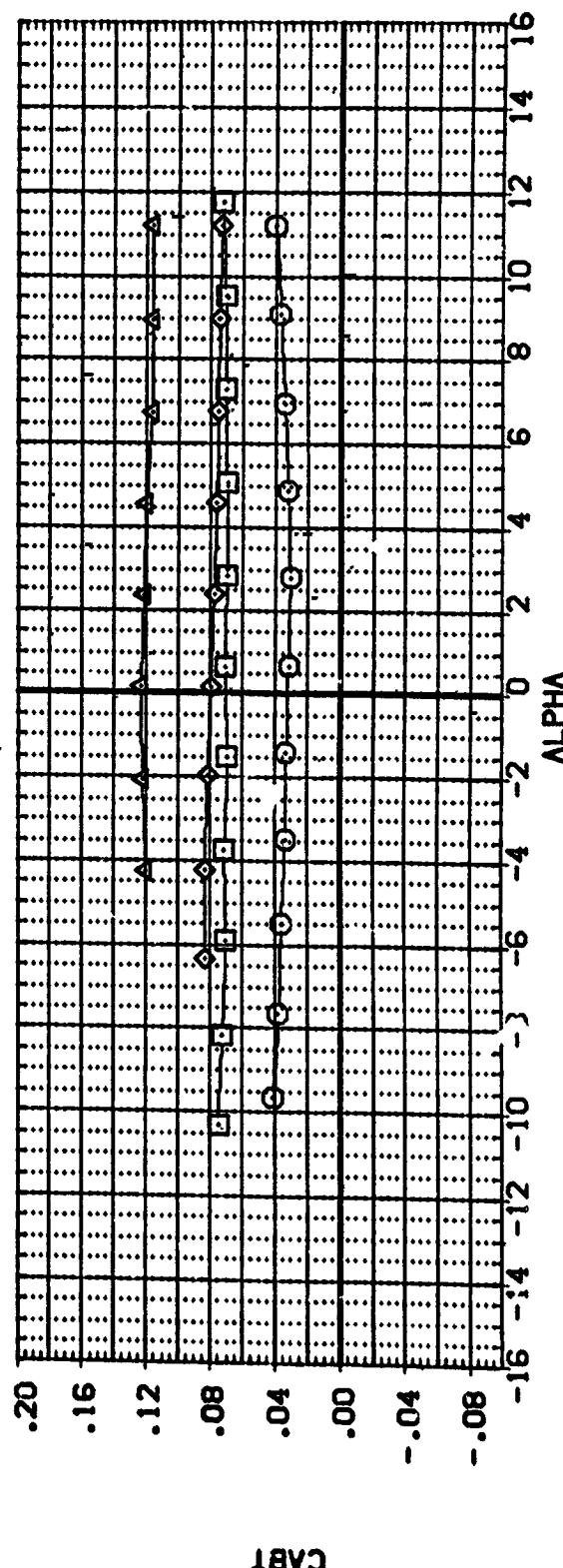
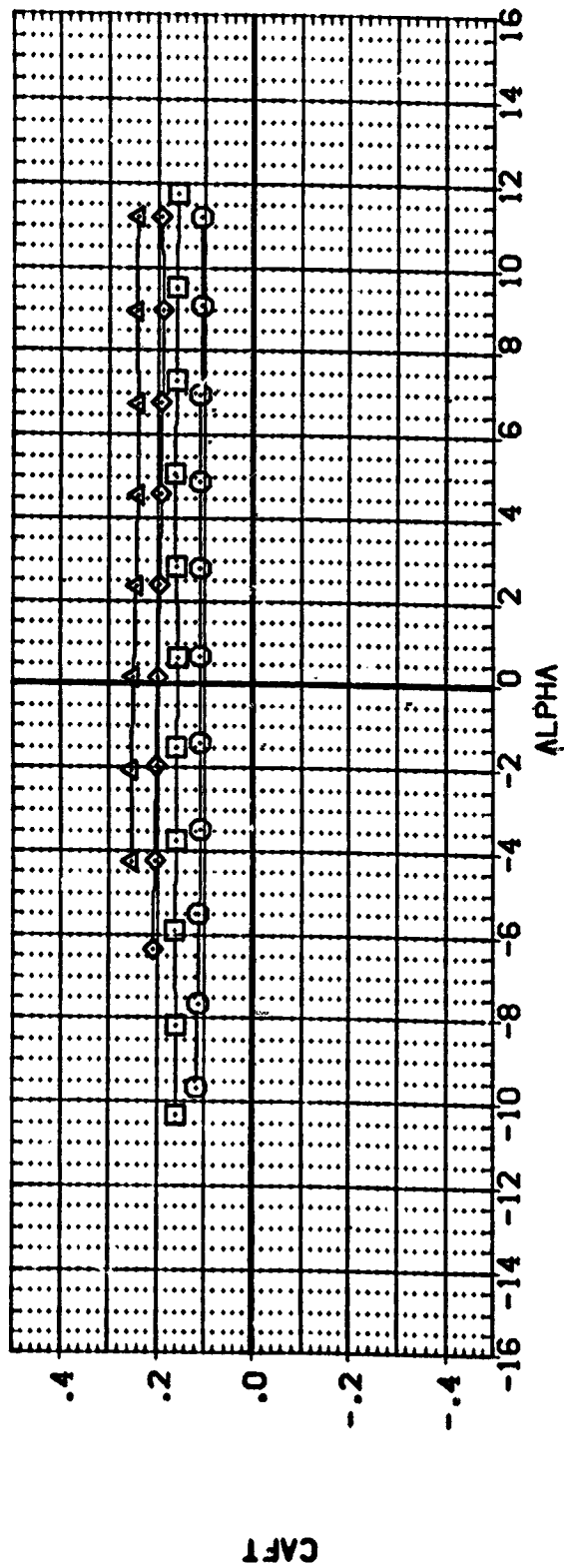
1M2A/B



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 1.70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP	BETA	RUDDER	REFERENCE INFORMATION
(C05001)	LRC UPVT 1056/1073 1A42A/B	TIP1	.000	.000	SREF 2690.0000 SO.FT.
(M06003)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	.000	.000	LREF 1290.3000 INCHES
(M06005)	LRC UPVT 1056/1073 1A42A/B	TIP1D1	.000	.000	BREF 1290.3000 INCHES
(M06007)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP201	.000	.000	XMRP 976.0000 INCHES
					YMRP 400.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.00

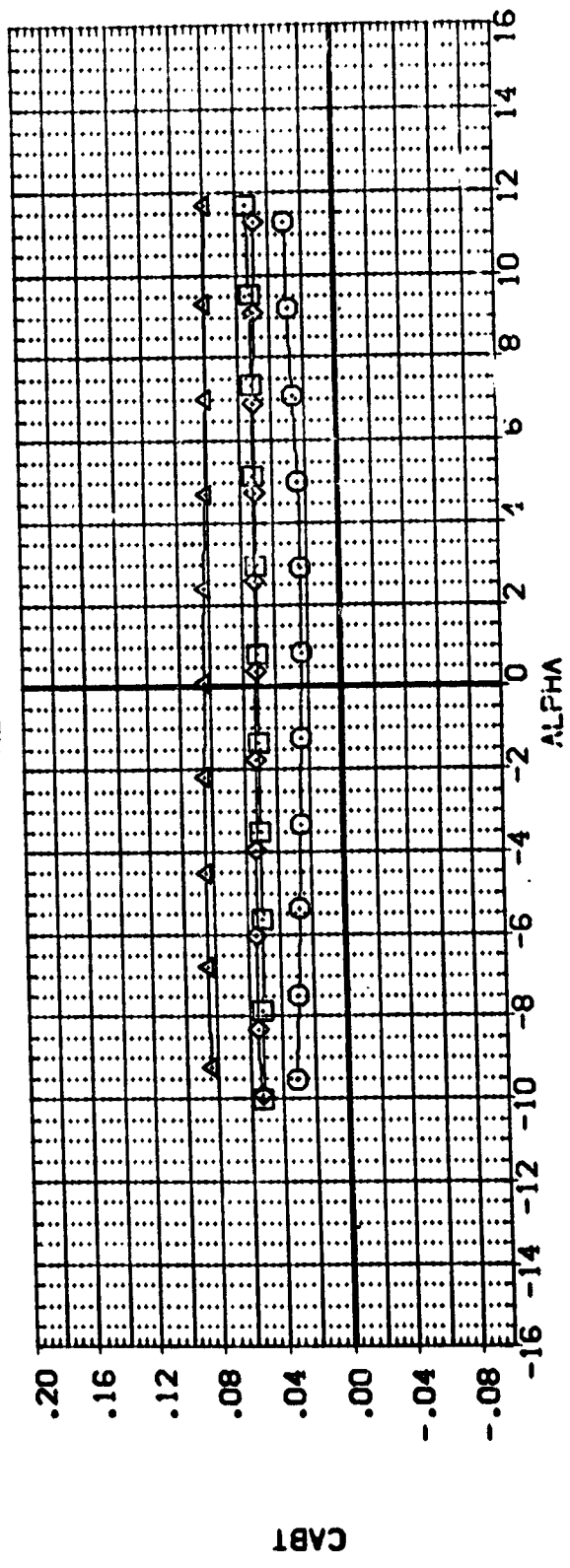
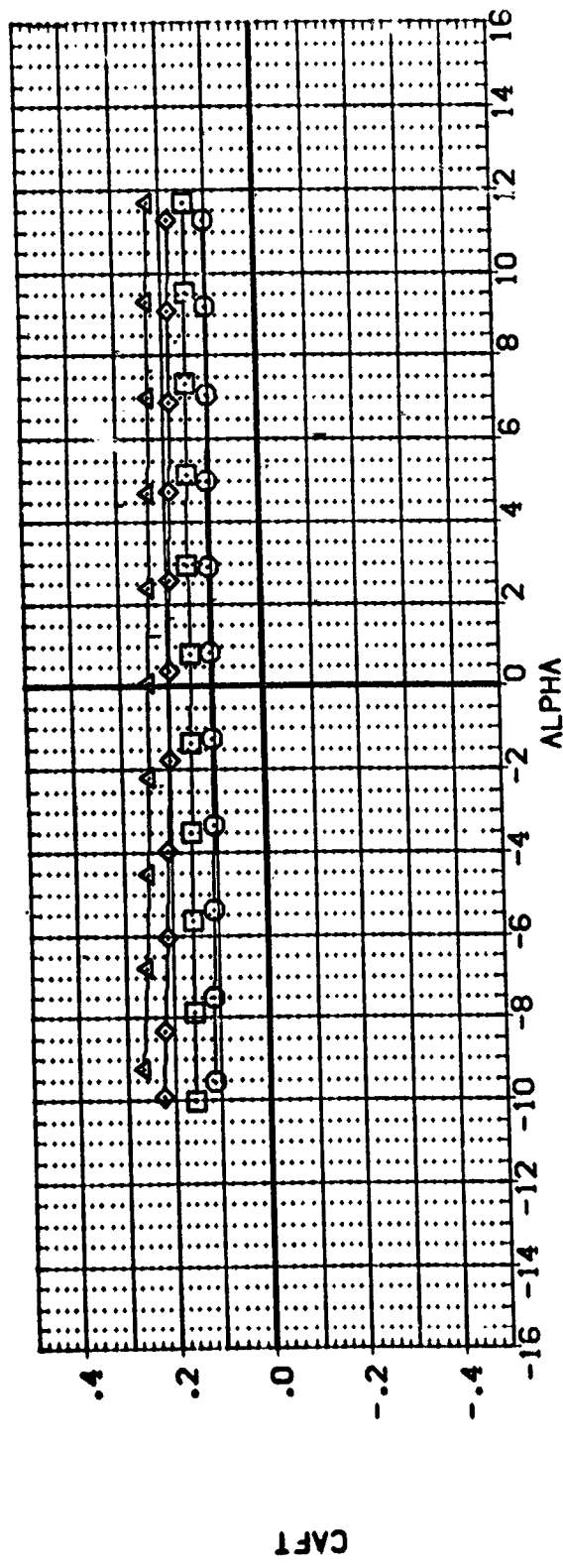
REFERENCE INFORMATION
 SREF 2690.0000 50 FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XWRP 976.0000 INCHES
 YWRP 400.0000 INCHES
 ZWRP 400.0000 INCHES
 SCALE .0150

BETA RUDER
 .000
 .000
 .000
 .000
 .000

TIP1
 TIP1SIP2
 TIP101
 TIP1SIP201

CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 IM2A/B
 LRC UPVT 1056/1073 IM2A/B
 LRC UPVT 1056/1073 IM2A/B
 LRC UPVT 1056/1073 IM2A/B

DATA SET SYMBOL
 (C05001)
 (H05003)
 (H05005)
 (H05007)



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

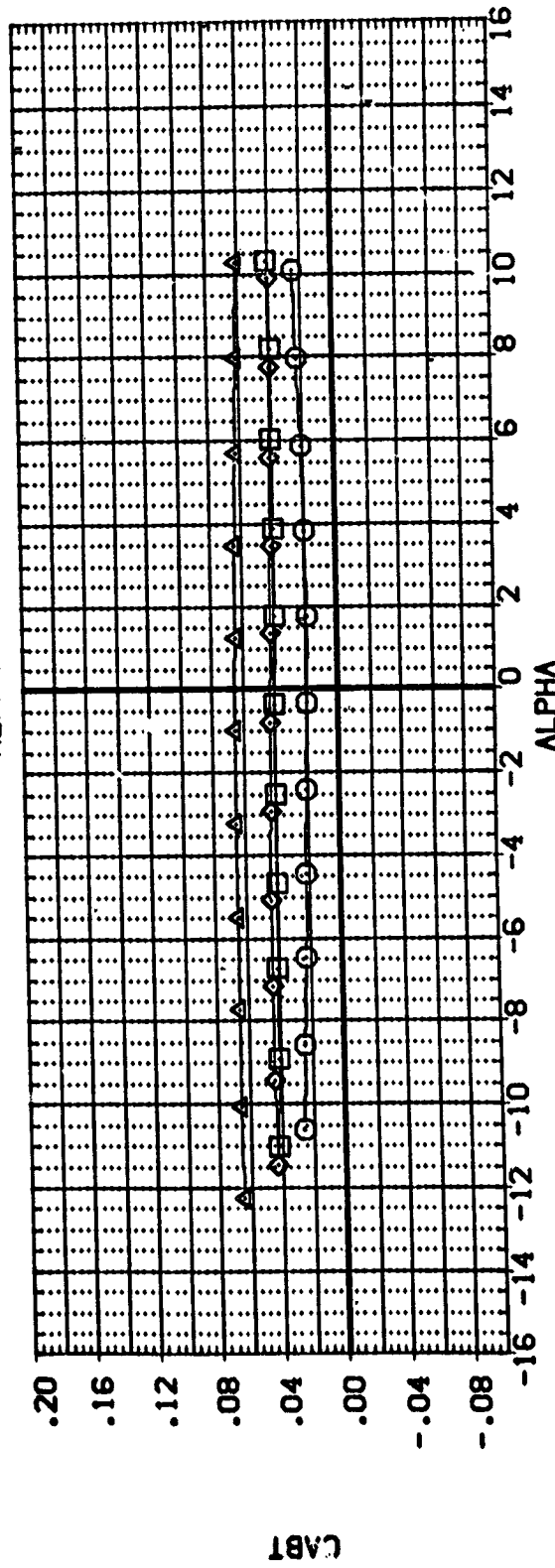
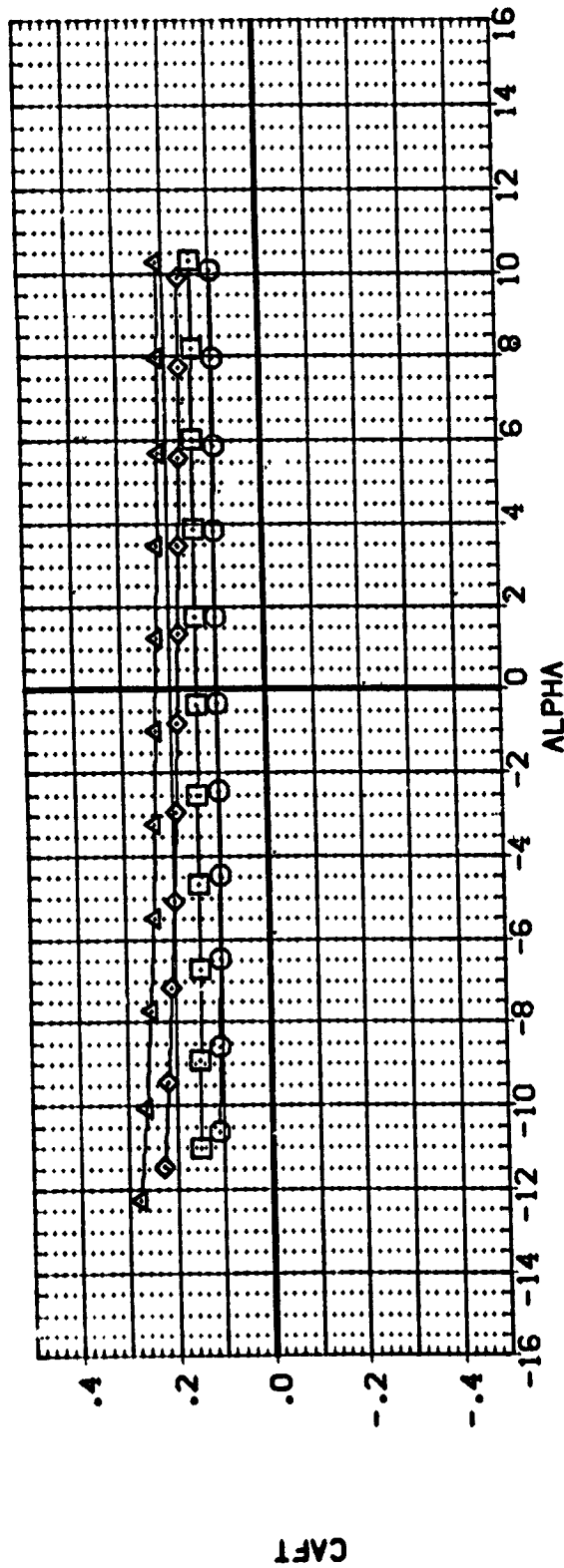
(0)MACH = 2.50

DATA SET SYMBOL
 (C06001)
 (M06003)
 (M06005)
 (M06007)

CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 1M2A/B
 LRC UPVT 1056/1073 1M2A/B
 LRC UPVT 1056/1073 1M2A/B
 LRC UPVT 1056/1073 1M2A/B

BETA RUDDER
 .000
 .000
 .000
 .000

TIP
 TIP1SIP2
 TIP101
 TIP1SIP201



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 2.86

DATA SET SYMBOL
 (C05001)
 (M05003)
 (M05005)
 (M05007)

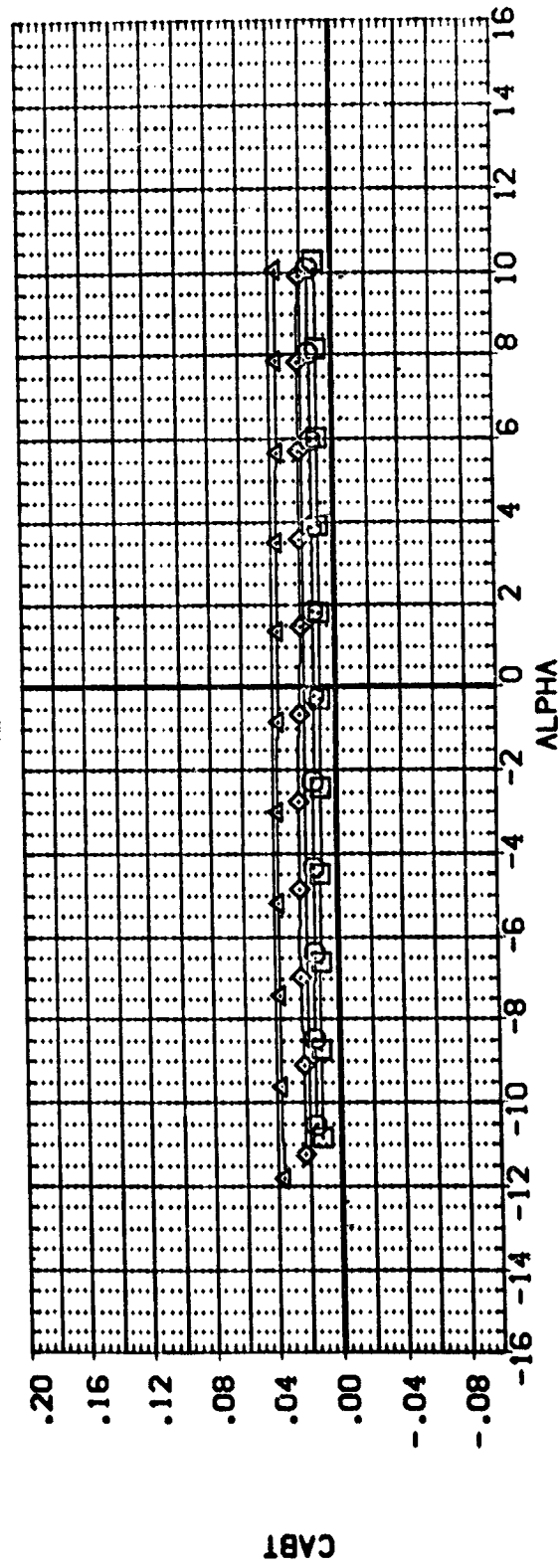
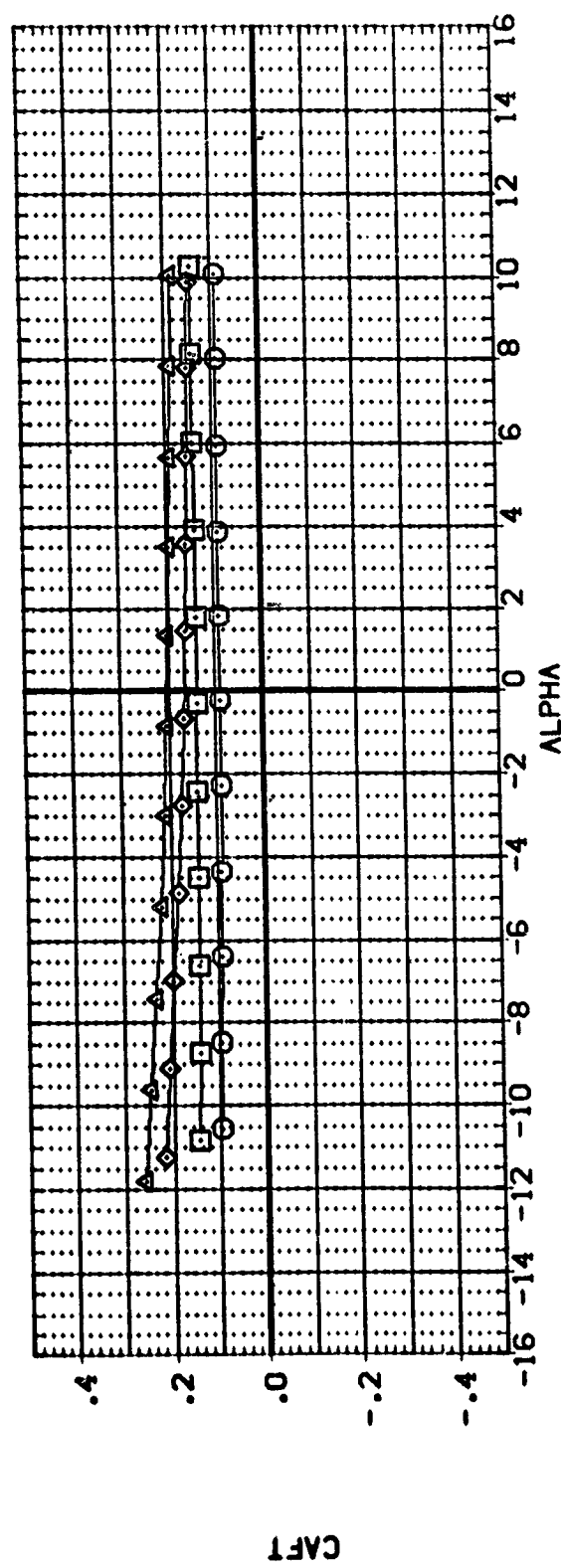
CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 IM2MVB
 LRC UPVT 1056/1073 IM2MVB
 LRC UPVT 1056/1073 IM2MVB
 LRC UPVT 1056/1073 IM2MVB

TIP1
 TIP1SIP2
 TIP1OI
 TIP1SIP2OI

BETA
 .000
 .000
 .000
 .000

RUDER
 .000
 .000
 .000
 .000

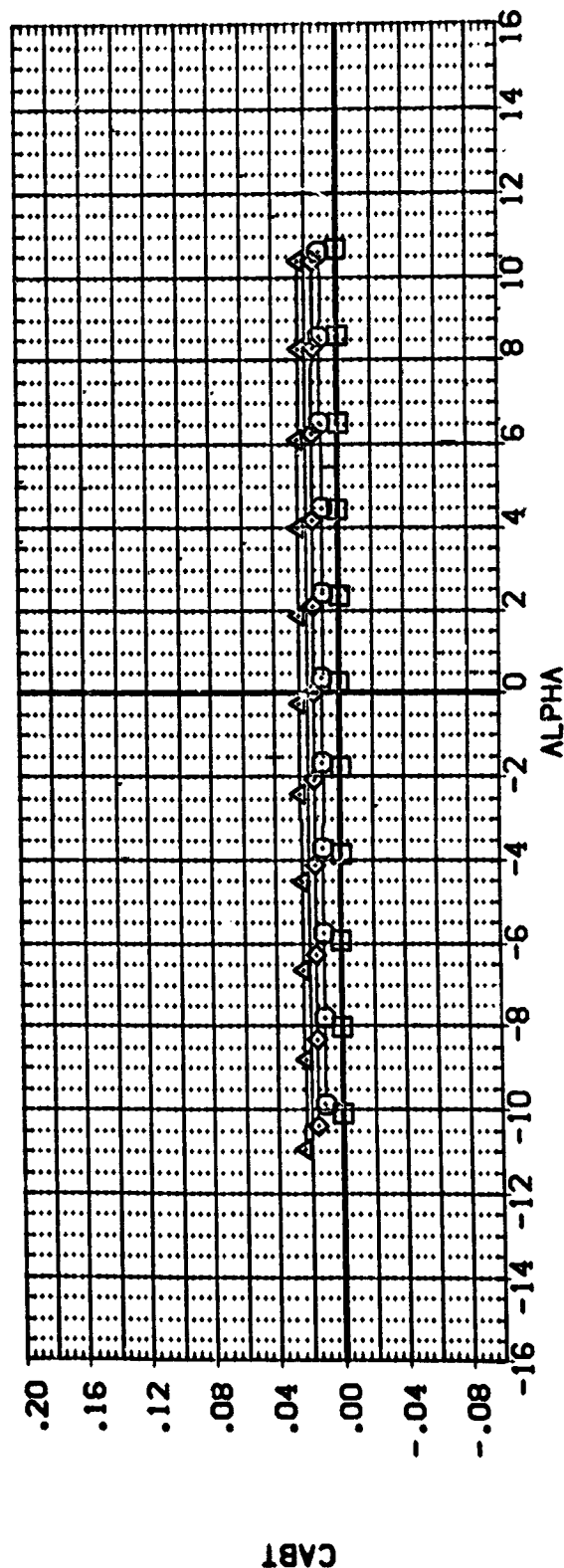
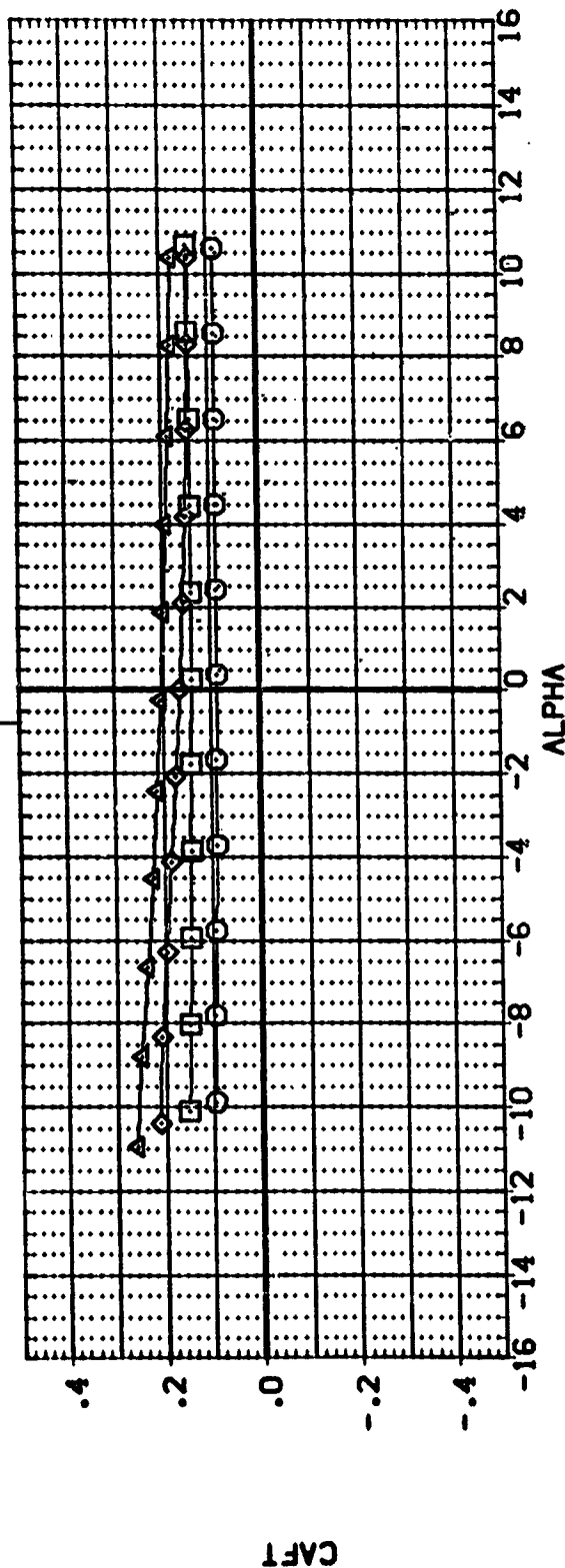
REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 3.90

DATA SET SYMBOL	DATA SET SYMBOL
(C06001)	(C06001)
(H06003)	(H06003)
(H06005)	(H06005)
(H06007)	(H06007)



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(G)MACH = 4.63

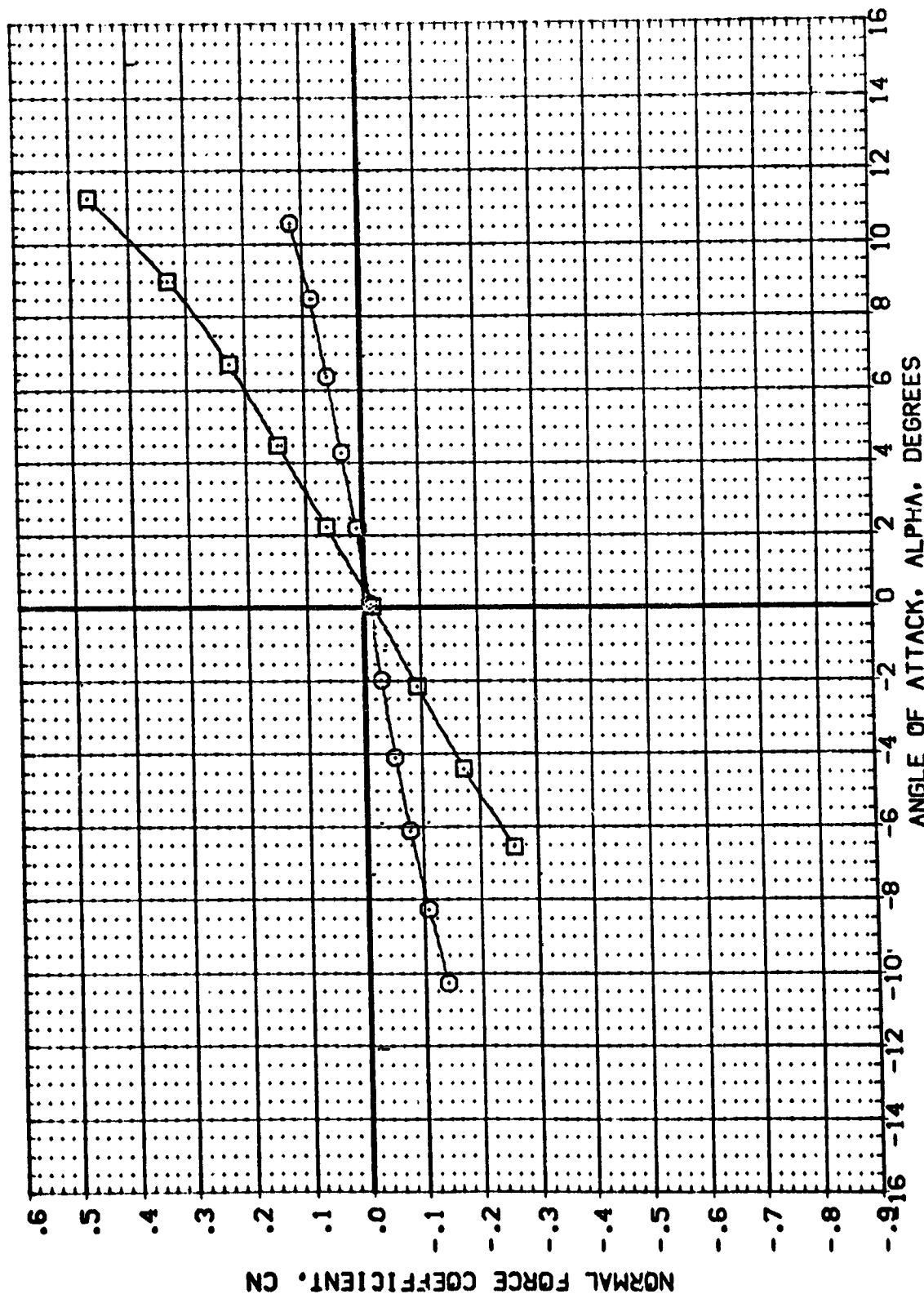
REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA .000
 RUDDER .000
 .000
 .000
 .000

TIP1
 TIP1SIP2

CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

DATA SET SYMBOL
 (C06001)
 (H06003)
 (H06005)
 (H06007)



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C06001) DATA NOT AVAILABLE

(M06003) DATA NOT AVAILABLE

(M06005) LRC UPVT 1056/1073 1M2A/B

(M06007) DATA NOT AVAILABLE

TIP101

BETA RUDDER

.000 .000

.000 .000

.000 .000

.000 .000

REFERENCE INFORMATION

SREF 2690.0000 50 FT.

LREF 1290.3000 INCHES

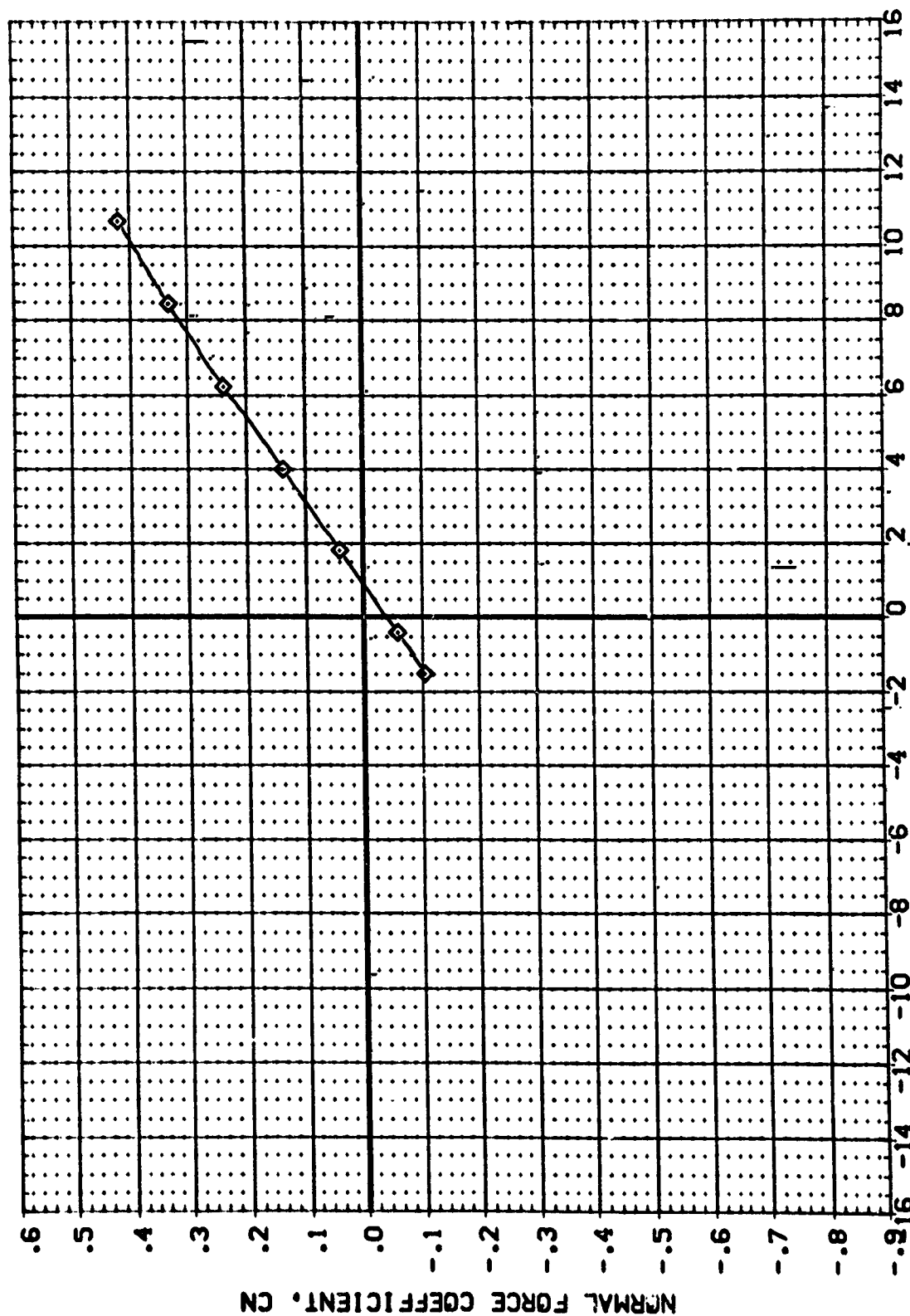
BREF 1290.3000 INCHES

XMRP 976.0000 INCHES

YMRP 400.0000 INCHES

ZMRP 400.0000 INCHES

SCALE .0150

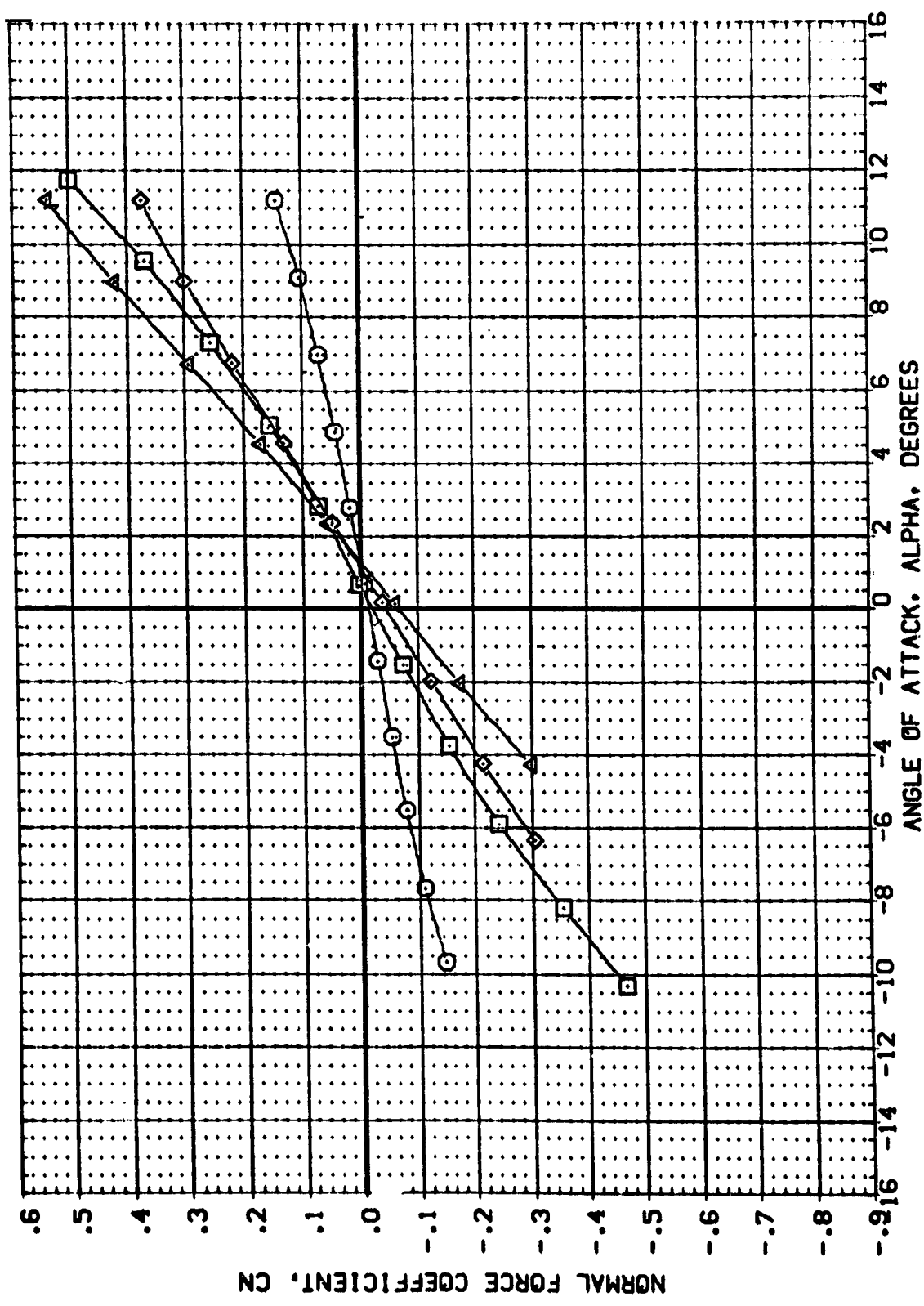


ANGLE OF ATTACK, ALPHA, DEGREES

CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 1.70

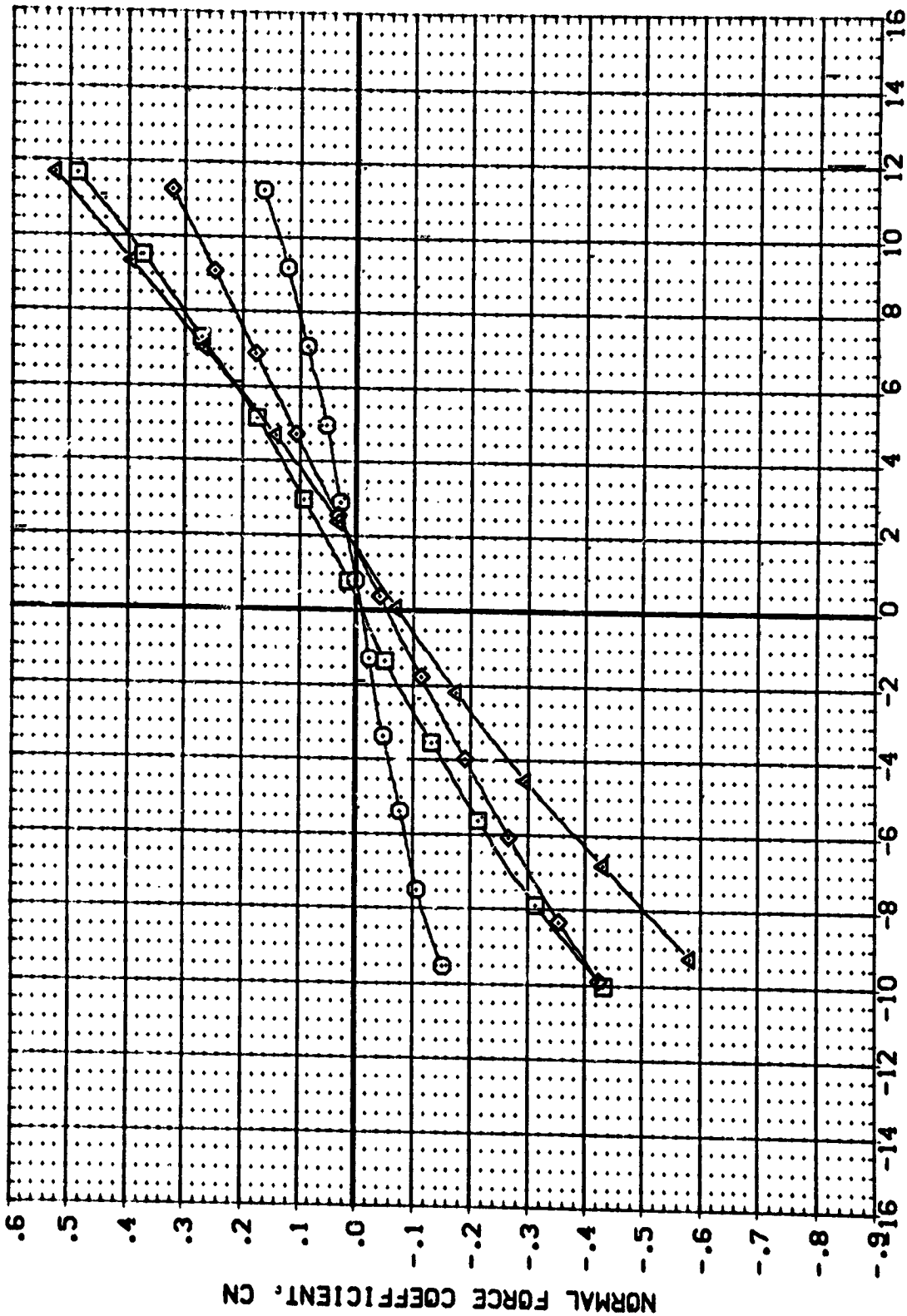
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	BETA	RUDDER	REFERENCE INFORMATION
(C05001)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	.000	.000	SREF 2690.0000 SO.FT.
(H05003)	LRC UPVT 1056/1073 1A42A/B	TIP1D1	.000	.000	LREF 1290.3000 INCHES
(H05005)	LRC UPVT 1056/1073 1A42A/B	TIP1D1	.000	.000	BREF 1290.3000 INCHES
(H05007)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP201	.000	.000	XMRP 976.0000 INCHES
					YMRP 400.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.00

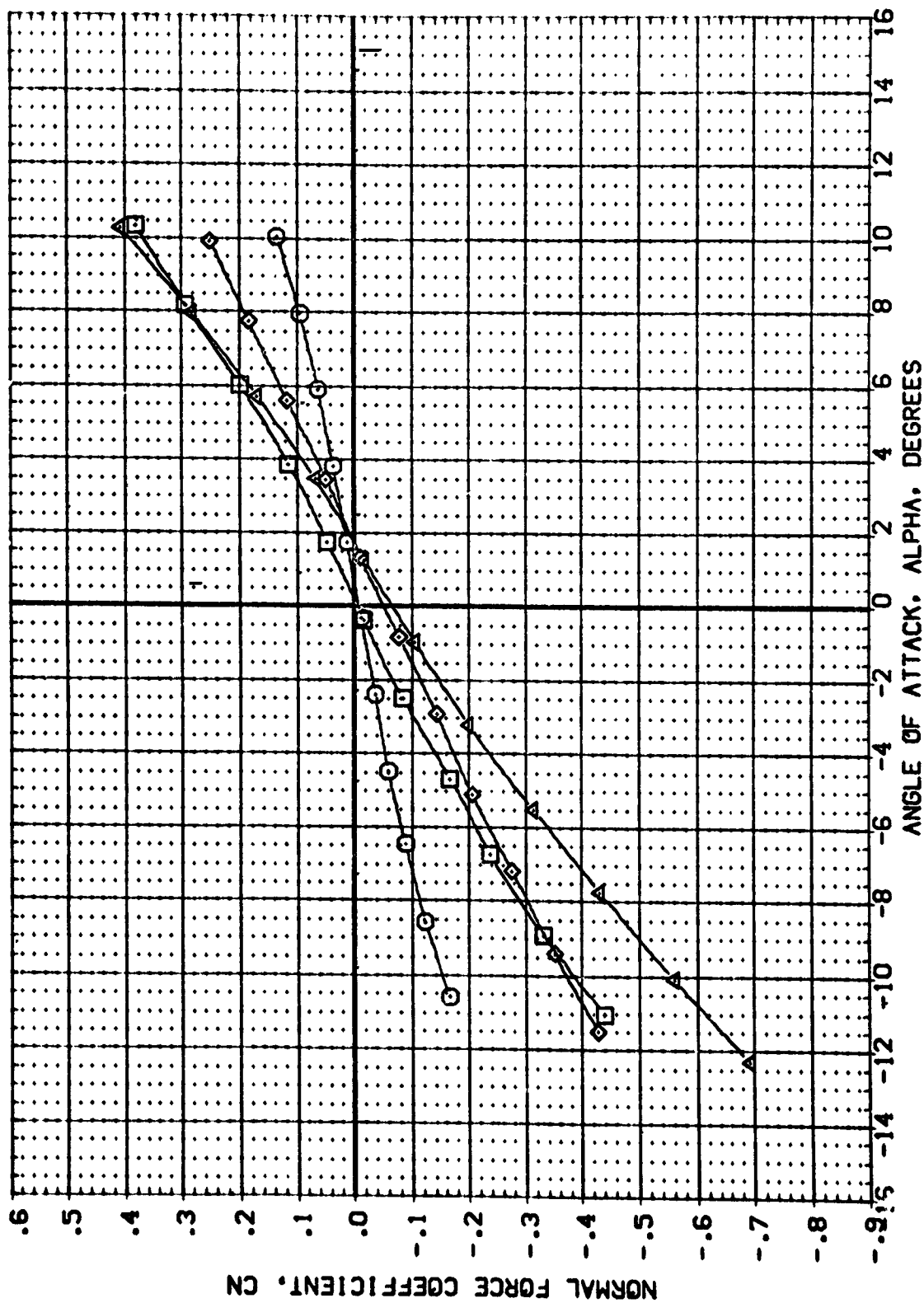
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1 TIP1SIP2	BETA	RUDDER	REFERENCE INFORMATION
(C06001)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	.000	.000	SREF 2690.0000 SQ.FT
(H06003)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	.000	.000	LREF 1290.3000 INCHES
(H06005)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	.000	.000	BREF 1290.3000 INCHES
(H06007)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	.000	.000	XREF 976.0000 INCHES
					YREF .0000 INCHES
					ZREF 400.0000 INCHES
					SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(U)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	TIP1SIP2	TIP101	TIP1SIPM1	BETA	RUDDER	REFERENCE INFORMATION
(H06001)	LRC UPVT 1056/1073 1A42A/B					.000	.000	SRF 2690.0000 50. FT.
(H06003)	LRC UPVT 1056/1073 1A42A/B					.000	.000	LRF 1290.3000 INCHES
(H06005)	LRC UPVT 1056/1073 1A42A/B					.000	.000	BRF 1290.3000 INCHES
(H06007)	LRC UPVT 1056/1073 1A42A/B					.000	.000	YFRP 576.0000 INCHES
								ZFRP 400.0000 INCHES
								SCALE .0150 INCHES

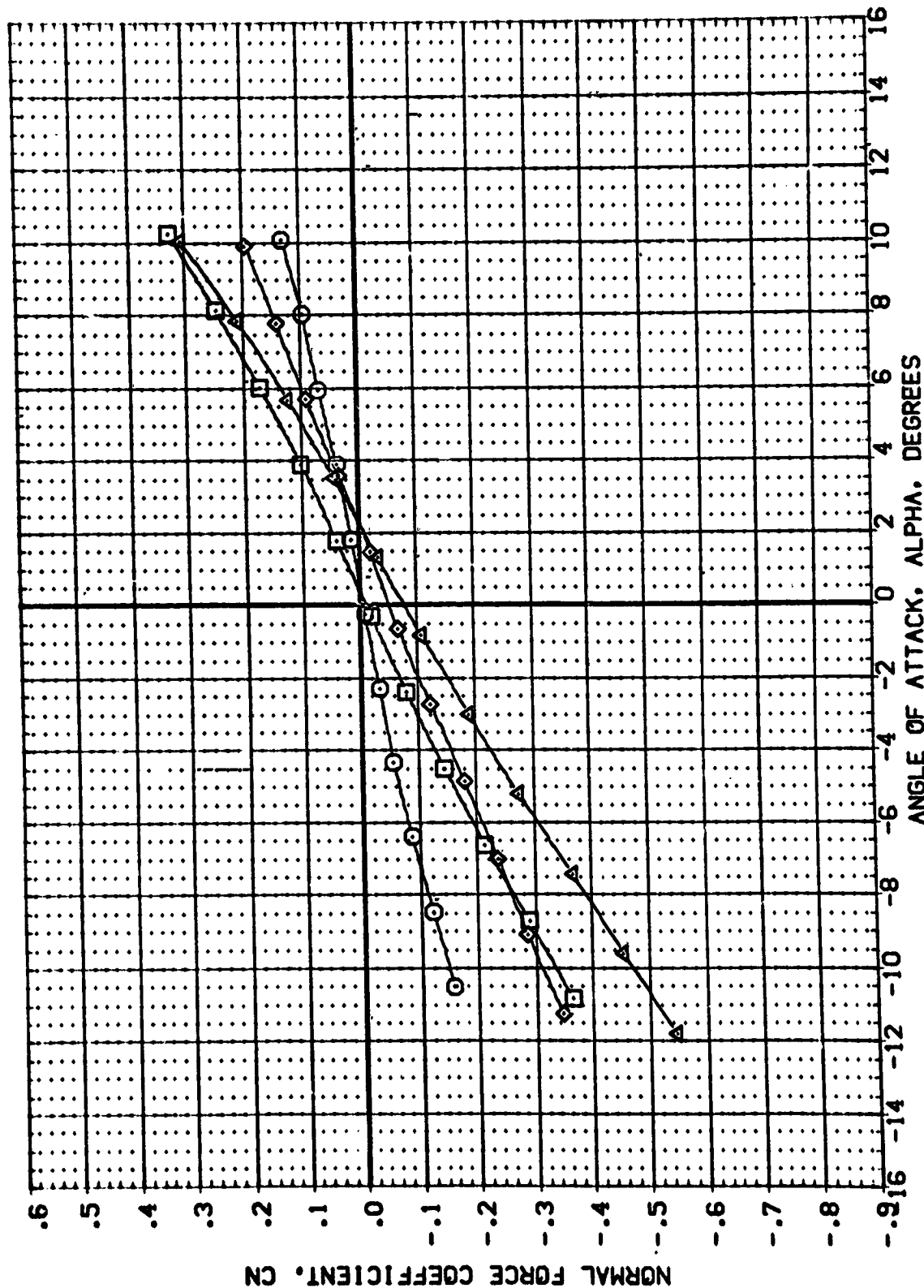


CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 2.86



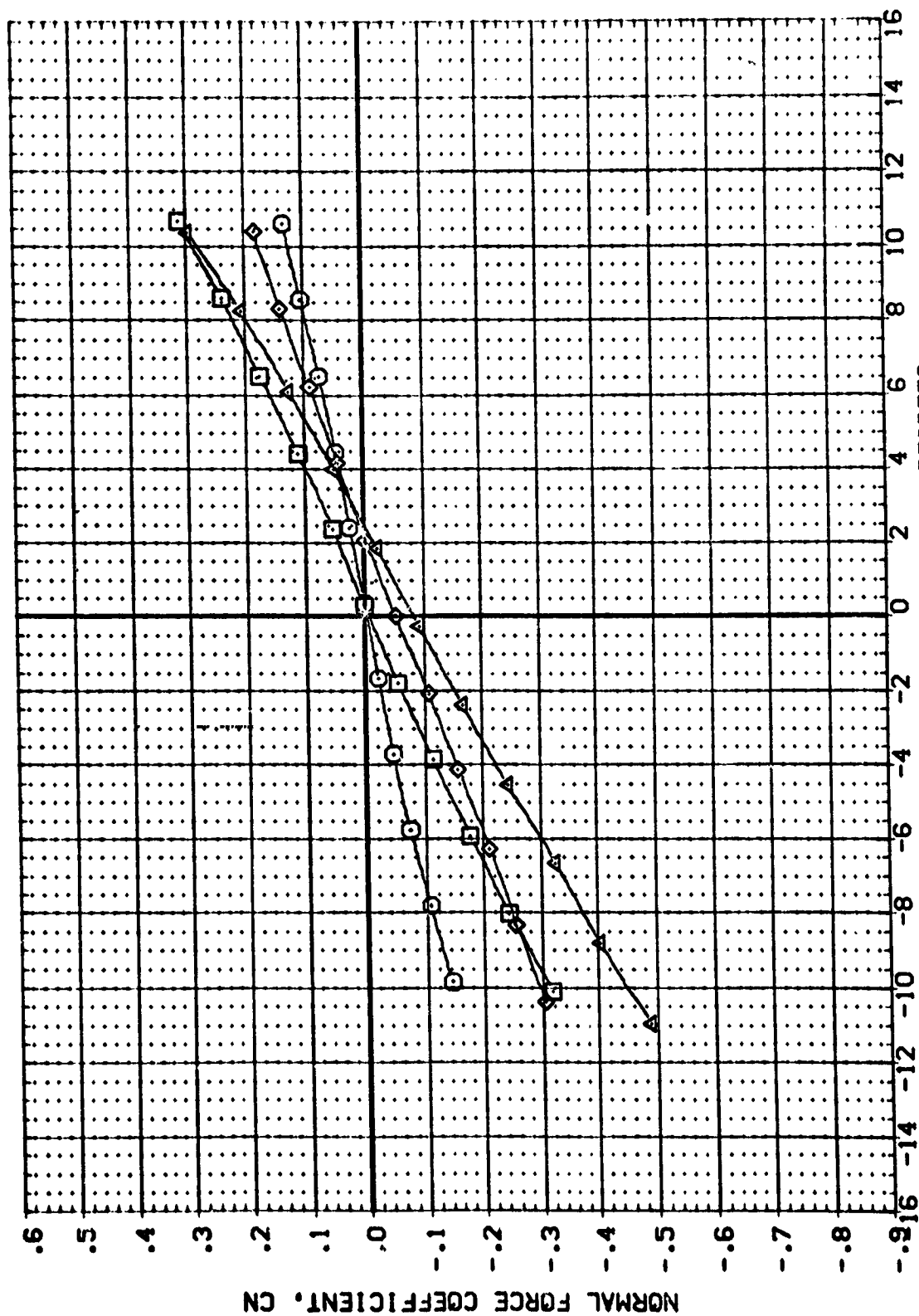
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1 TIP1SIP2	BETA	RUDDER	REFERENCE INFORMATION
(C05001)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	.000	.000	SREF 2690.0000 50. FT.
(H05003)	LRC UPVT 1056/1073 1A42A/B	TIP101	.000	.000	LREF 1290.3000 INCHES
(H05005)	LRC UPVT 1056/1073 1A42A/B	TIP101	.000	.000	BREF 1290.3000 INCHES
(H05007)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP201	.000	.000	XTRP 976.0000 INCHES
					YTRP 400.0000 INCHES
					ZTRP .0150 INCHES
					SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	TIP1SIP2	BETA	RUDDER	REFERENCE	FORMATION
(C06001)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2		.000	.000	SREF	2690.0000 SQ.FT.
(H06003)	LRC UPVT 1056/1073 1A42A/B	TIP101		.000	.000	LREF	1290.3000 INCHES
(H06005)	LRC UPVT 1056/1073 1A42A/B	TIP101		.000	.000	BREF	1290.3000 INCHES
(H06007)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP201		.000	.000	XMRP	976.0000 INCHES
						YMRP	.0000 INCHES
						ZMRP	400.0000 INCHES
						SCALE	.0150 SCALE



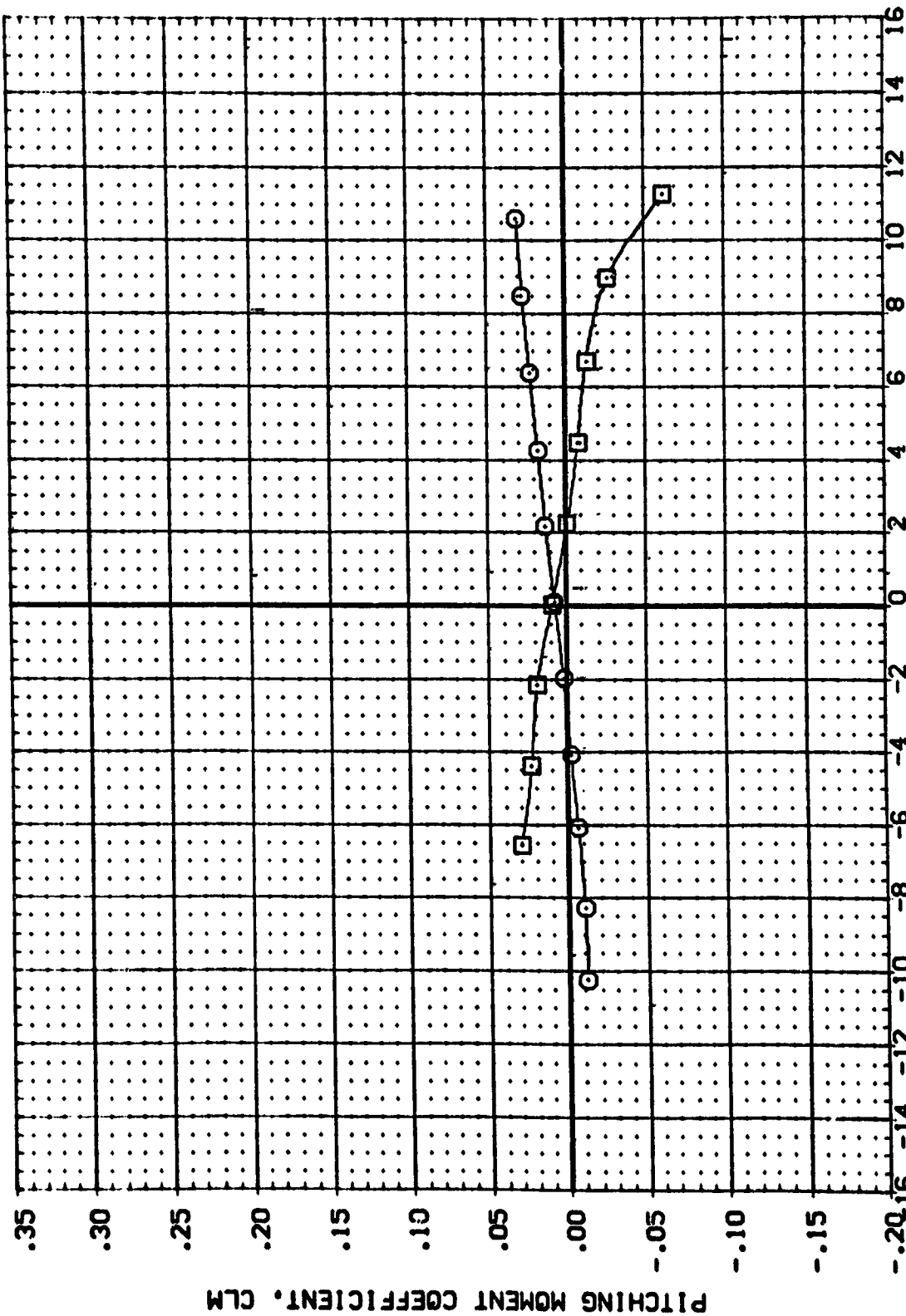
CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(G)MACH = 4.63

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XTRP 976.0000 INCHES
 YTRP 400.0000 INCHES
 ZTRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 .000
 .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C06001) LRC UPVT 1056/1073 1M2A/B
 (H06003) LRC UPVT 1056/1073 1M2A/B
 (H06005) DATA NOT AVAILABLE
 (H06007) DATA NOT AVAILABLE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(M)MACH = 1.60

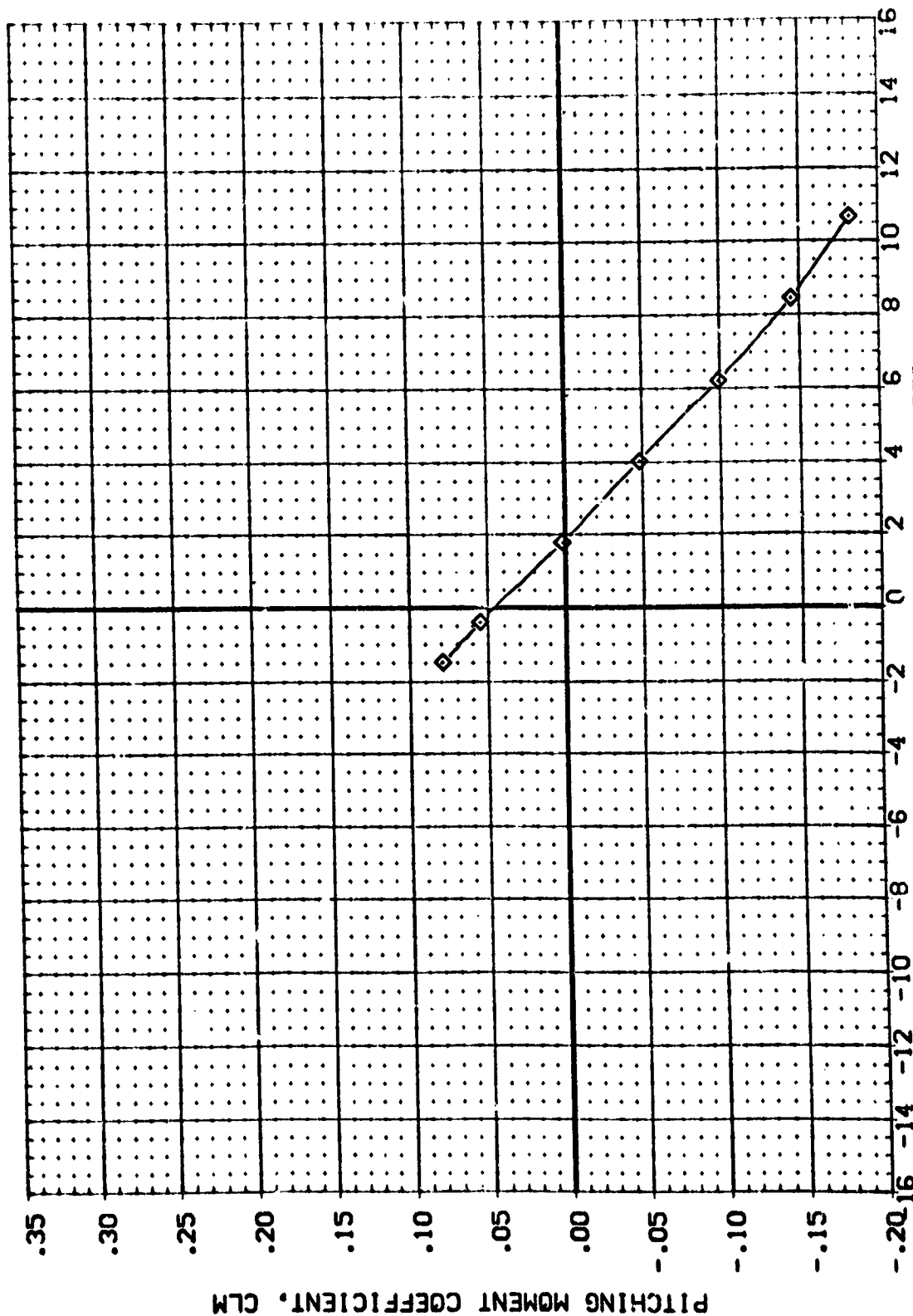
REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 .000
 .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C06001) DATA NOT AVAILABLE
 (M06003) DATA NOT AVAILABLE
 (M06005) LRC UPVT 1056/1073
 (M06007) DATA NOT AVAILABLE

TIP101

1M2A/B



ANGLE OF ATTACK, ALPHA, DEGREES

CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 1.70

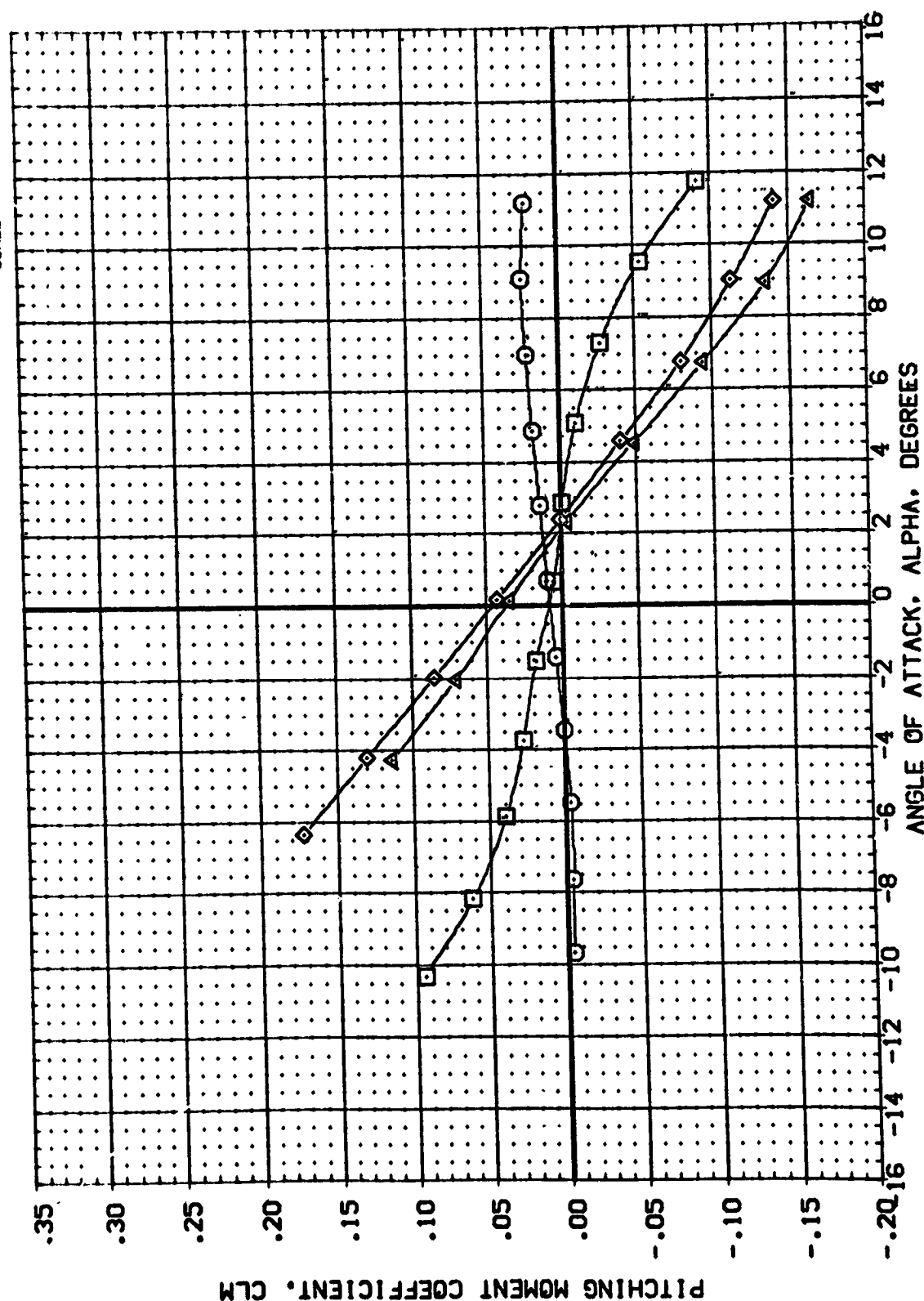
REFERENCE INFORMATION:
 SREF 2690.0000 INCHES
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 SCALE .0150

BETA PUDDX.R
 .000
 .000
 .000
 .000

TIP
 T.P1SIP2
 T.P101
 T.P1SIP201

CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B

SET SYMBOL
 (C06001)
 (H06003)
 (H06005)
 (H06007)



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

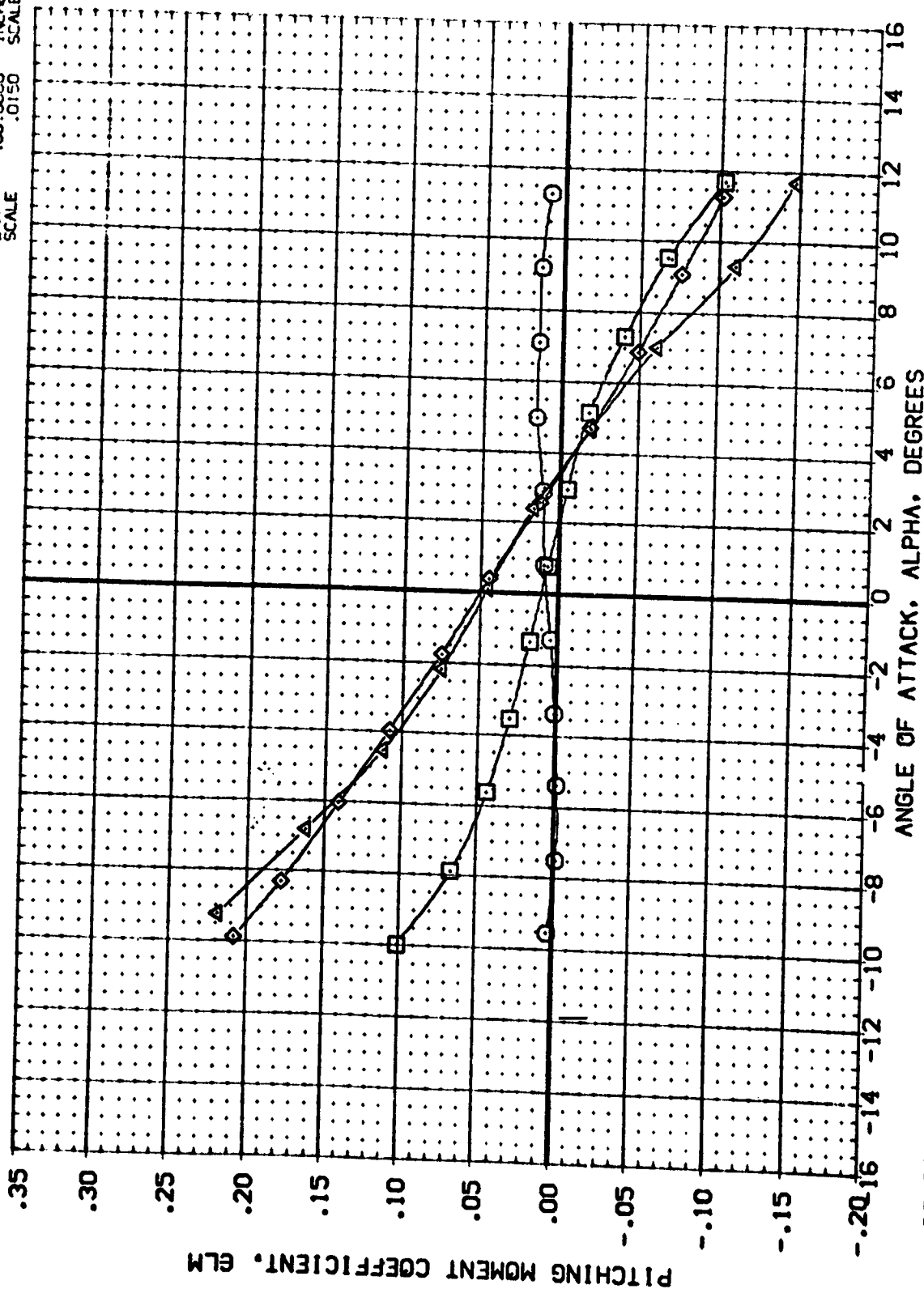
(C)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C06001) LRC UPVT 1056/1073 1A42A/B
 (H06003) LRC UPVT 1056/1073 1A42A/B
 (H06005) LRC UPVT 1056/1073 1A42A/B
 (H06007) LRC UPVT 1056/1073 1A42A/B

TIP1
 TIP1SIP2
 TIP101
 TIP1SIP201

BETA RUDDER
 .000 .000
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.50

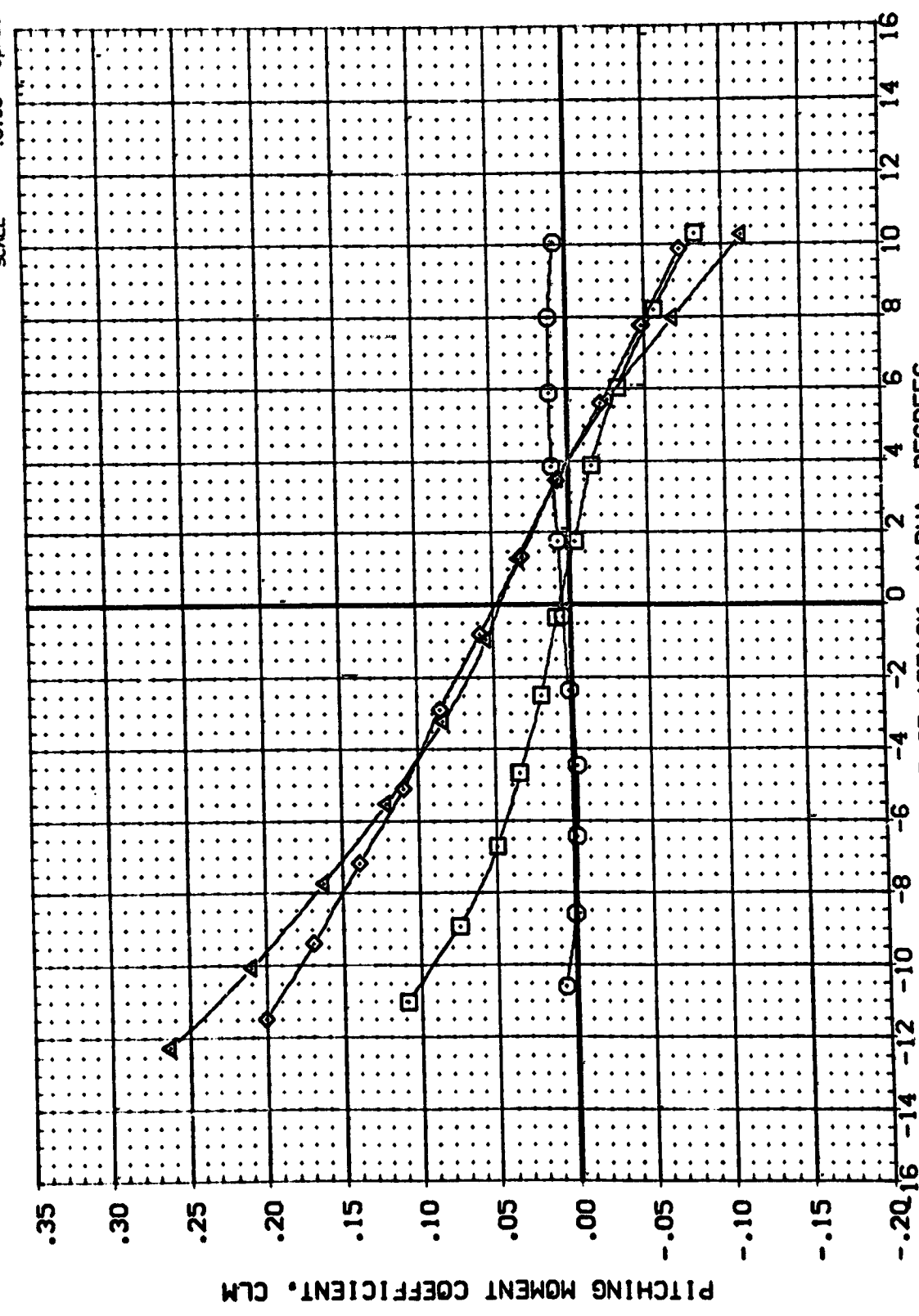
REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

BETA
 .000
 .000
 .000
 .000
 .000
 .000

TIP1
 TIP1SIP2
 TIP101
 TIP1SIP201

CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B

DATA SET SYMBOL
 (C06001)
 (H06003)
 (H06005)
 (H06007)



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 2.86

REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	INCHES
YMRP	400.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	.0150	SCALE

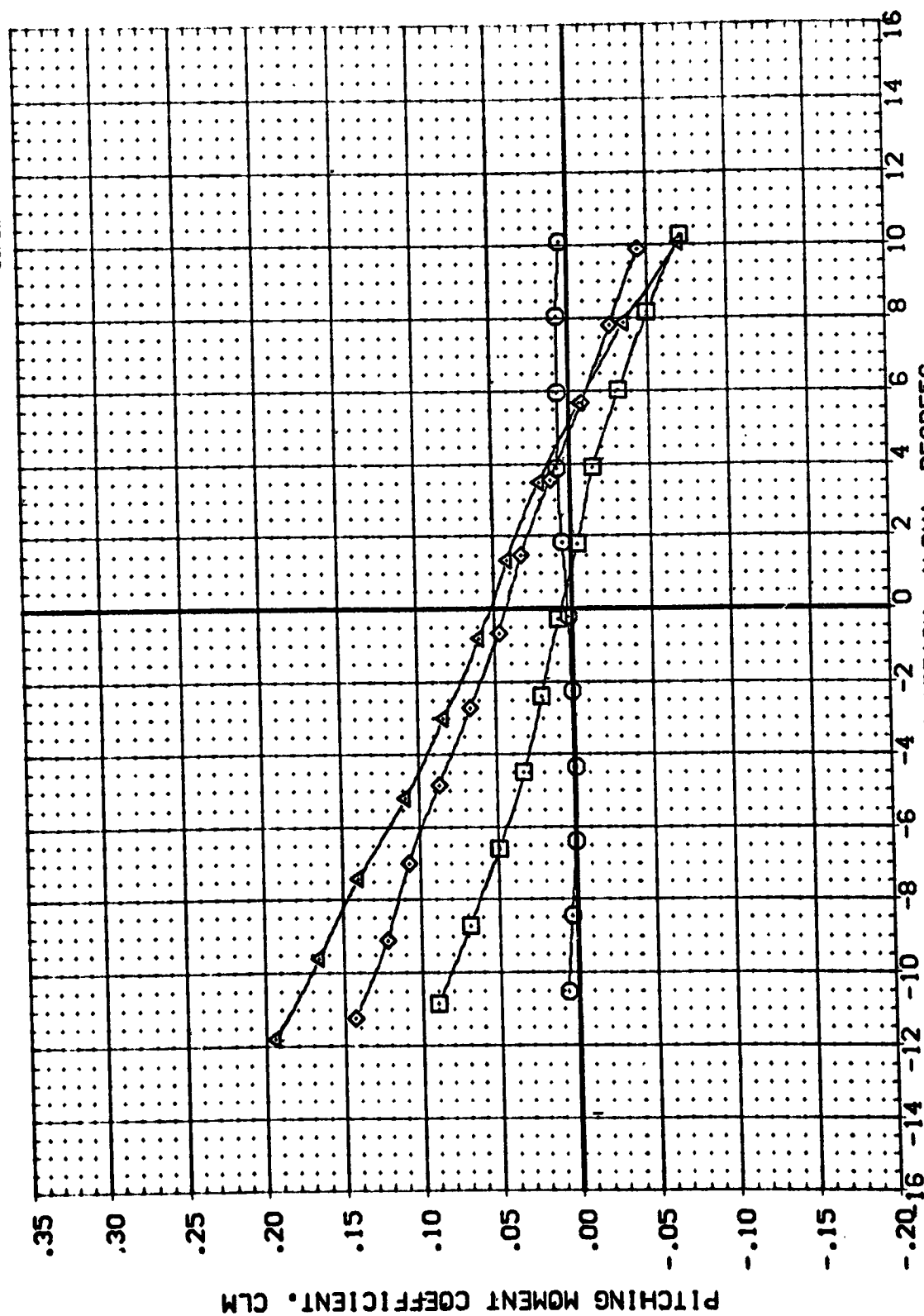
BETA

RUDDER	.000
.000	.000
.000	.000
.000	.000

TIP1
TIP1SIP2
TIP101P201
TIP1SIP201

CONFIGURATION DESCRIPTION

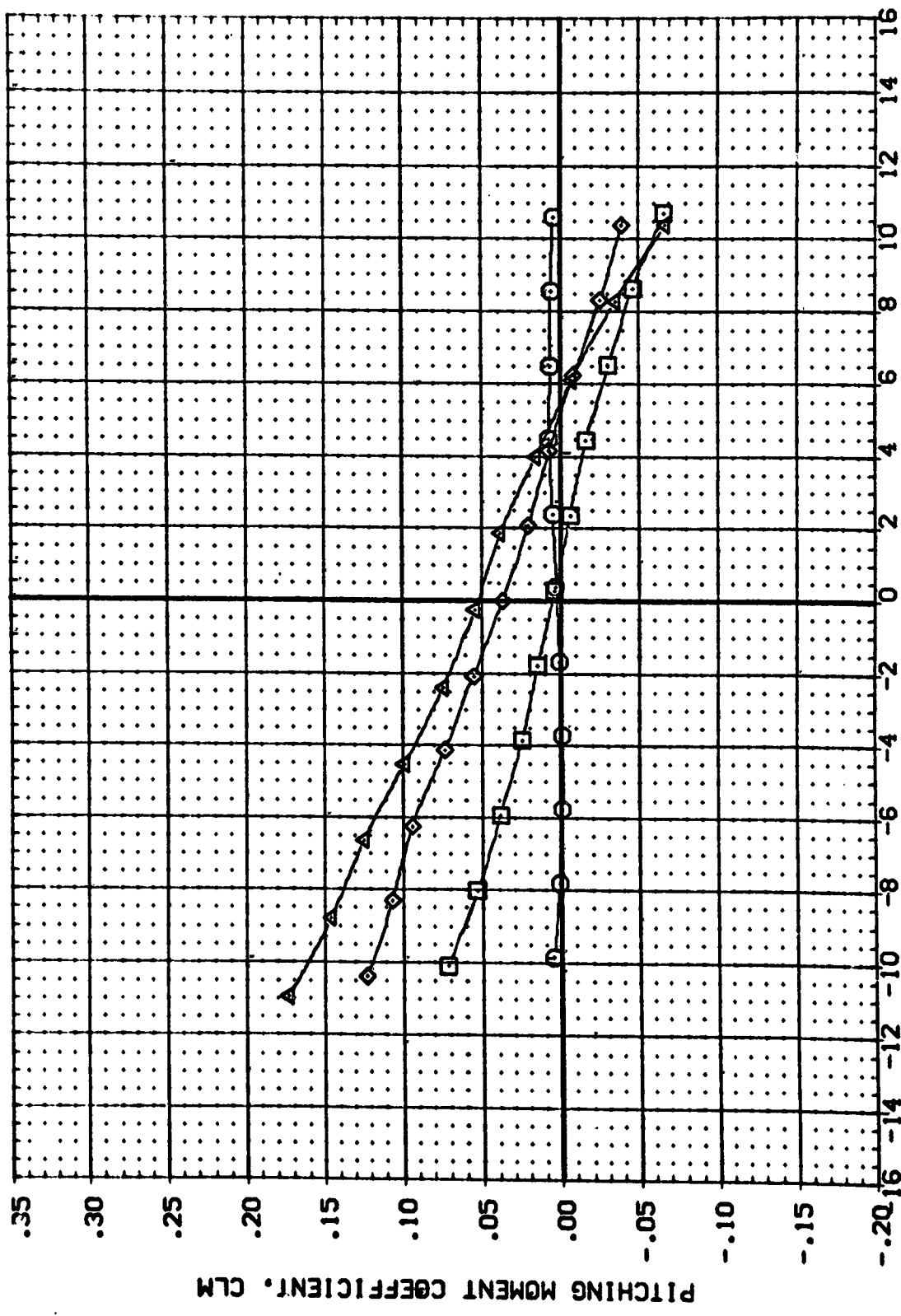
LRC LPVT 1056/1073	1A42A/B
LRC LPVT 1056/1073	1A42A/B
LRC LPVT 1056/1073	1A42A/B
LRC LPVT 1056/1073	1A42A/B



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	TIP1SIP2	TIP101	TIP1SIP201	BETA	RUDDER	REFERENCE INFORMATION
(H05001)	LRC UPVT 1056/1073 1A42A/B					.000	.000	SREF 2690.0000 SQ.FT.
(H05002)	LRC UPVT 1056/1073 1A42A/B					.000	.000	LREF 1290.3000 INCHES
(H05003)	LRC UPVT 1056/1073 1A42A/B					.000	.000	BREF 1290.3000 INCHES
(H05004)	LRC UPVT 1056/1073 1A42A/B					.000	.000	XMRP 976.0000 INCHES
(H05005)	LRC UPVT 1056/1073 1A42A/B					.000	.000	YMRP 400.0000 INCHES
								ZMRP 400.0000 INCHES
								SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(G)MACH = 4.63

DATA SET SYMBOL: (H06001) (H06003) (H06005) (H06007)

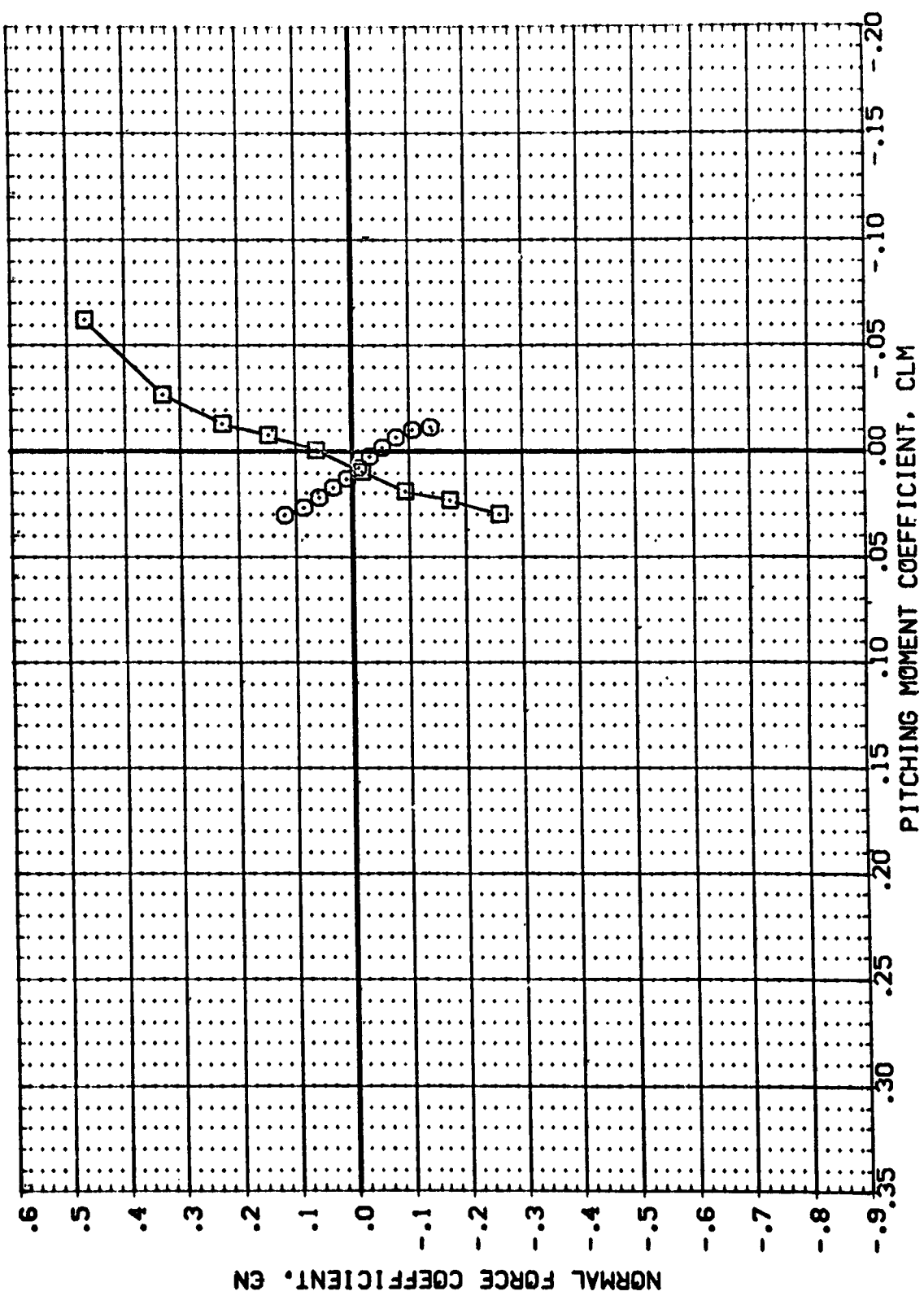
CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 IM42A/B LRC UPVT 1056/1073 IM42A/B DATA NOT AVAILABLE DATA NOT AVAILABLE

TIP1 TIP1SIP2

BETA: .000 .000 .000 .000 .000 .000

RUDDER: .000 .000 .000 .000 .000 .000

REFERENCE INFORMATION: SREF 2690.0000 SO.FT. 1290.3000 LREF 1290.3000 BREF 1290.3000 XMRP 976.0000 YMRP 400.0000 ZMRP 400.0000 SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(M)MACH = 1.60

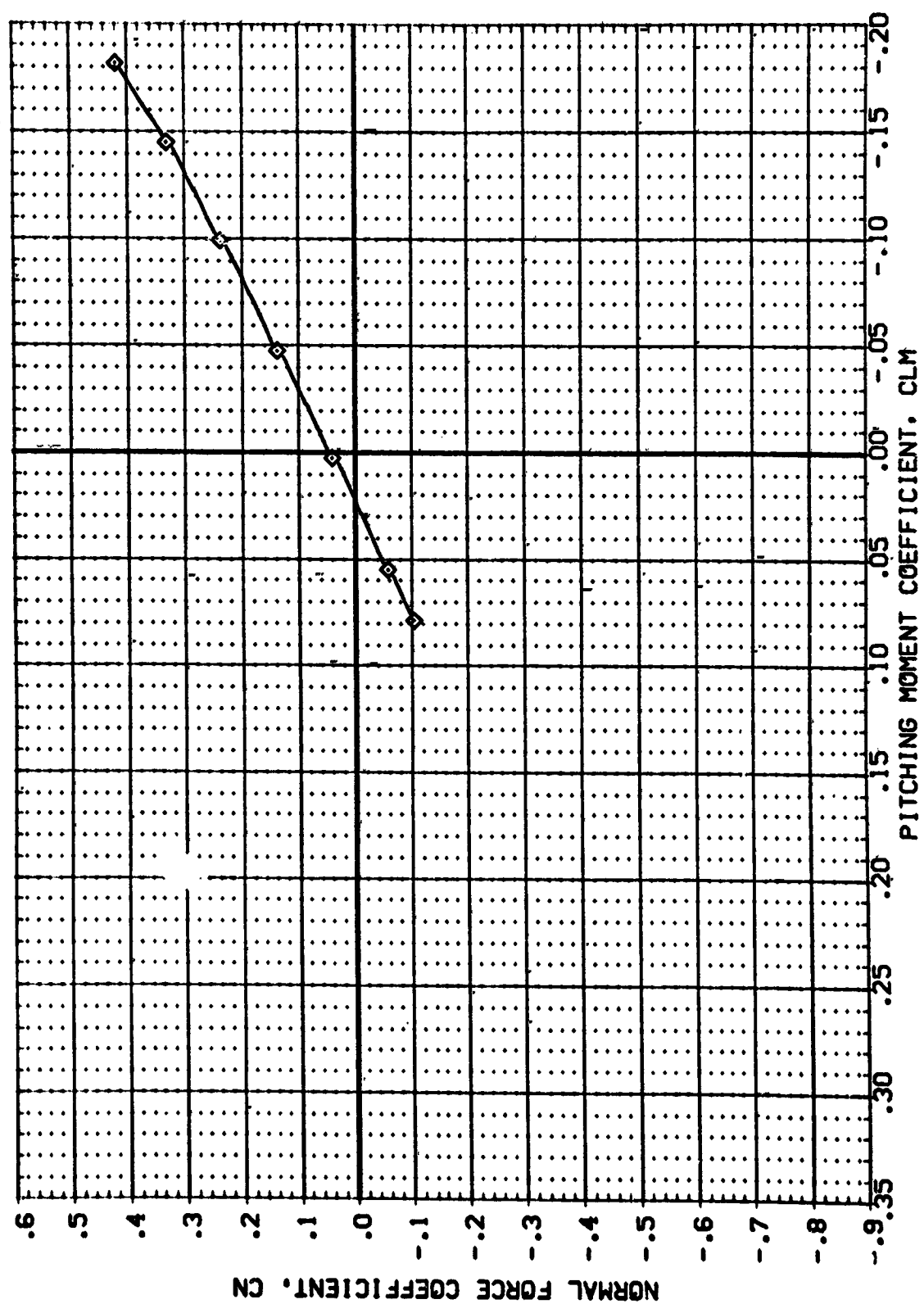
1.7

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C06001) DATA NOT AVAILABLE
 (H06003) DATA NOT AVAILABLE
 (H06005) LRC UPWT 1056/1073
 (H06007) DATA NOT AVAILABLE

TIP101

BETA RUDDER
 .000 .000
 .000 .000
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 | 50. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

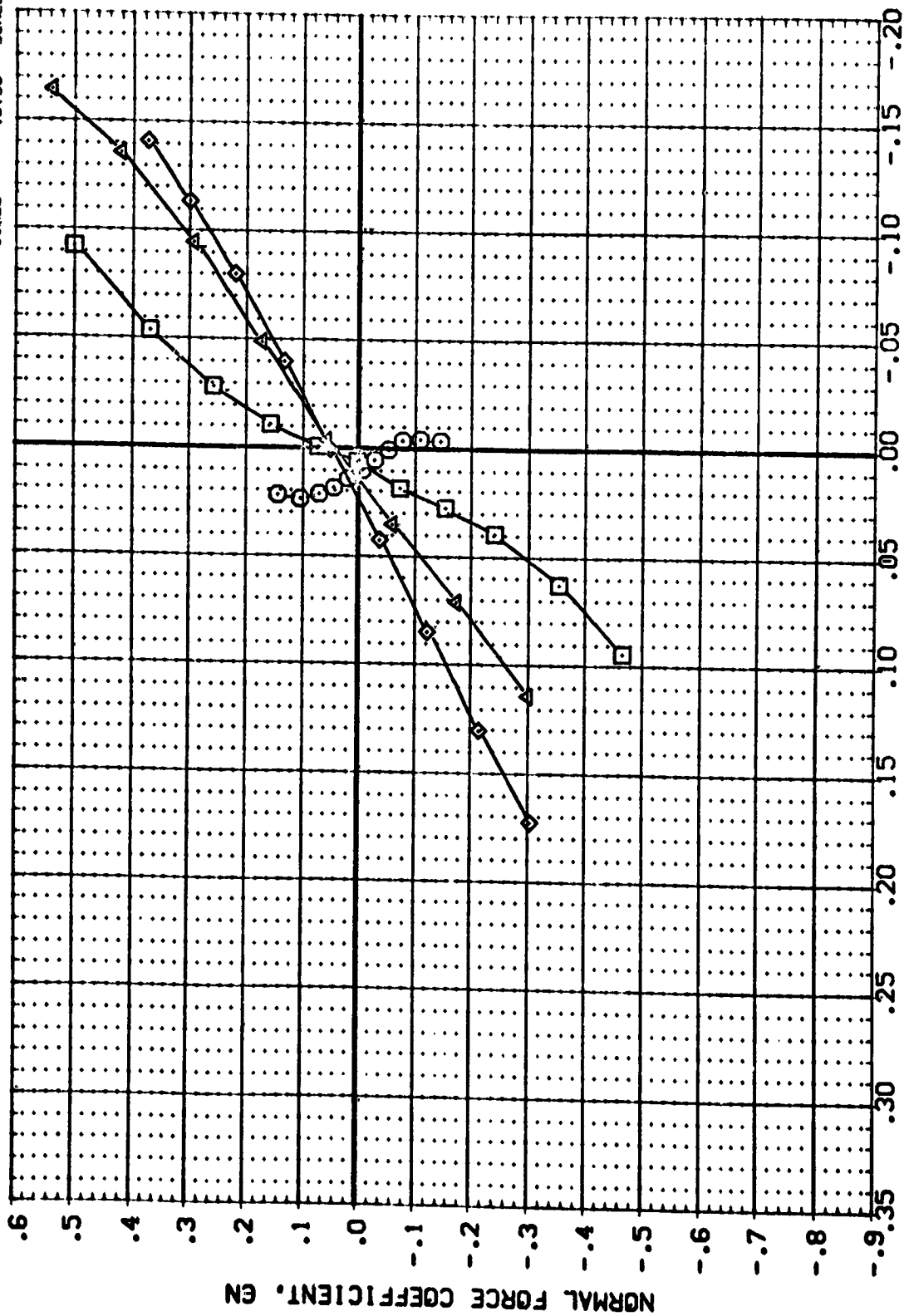
(B)MACH = 1.70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C06001) LRC UPVT 1056/1073 1A42A/B
 (H06003) LRC UPVT 1056/1073 1A42A/B
 (H06005) LRC UPVT 1056/1073 1A42A/B
 (H06007) LRC UPVT 1056/1073 1A42A/B

TIP1
 TIP1SIP2
 TIP101
 TIP1SIP201

BETA .000
 .000
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XPRP 976.0000 INCHES
 YPRP 400.0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0150

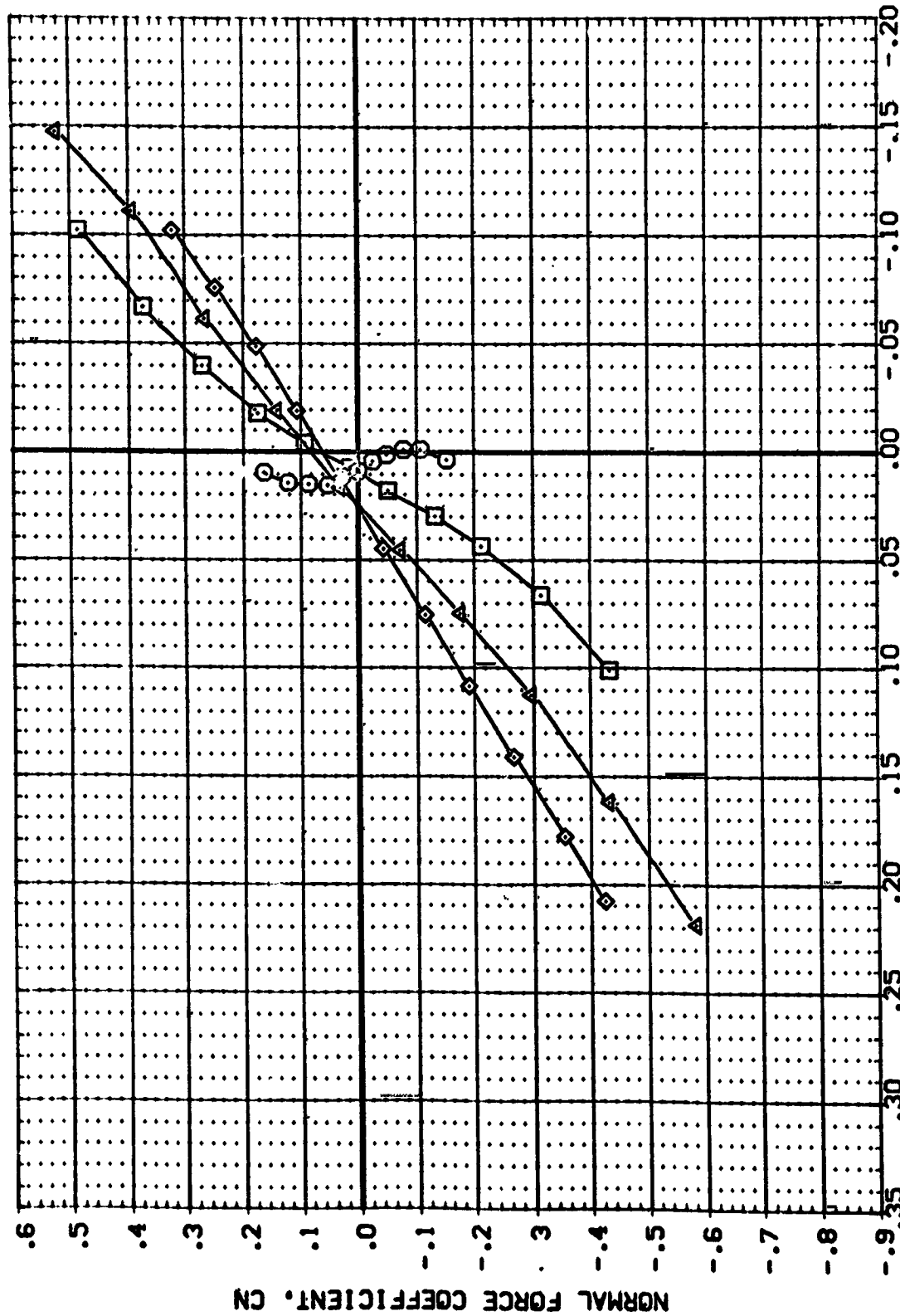


CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.00

14

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1 TIP101 TIP101P2	BETA	RUDDER	REFERENCE INFORMATION
(C06001)	LRC UPVT 1056/1073 1A42MVB		.000	.000	SREF 2690.0000 SD.FT.
(M06003)	LRC UPVT 1056/1073 1A42MVB		.000	.000	LREF 1290.3000 INCHES
(M06005)	LRC UPVT 1056/1073 1A42MVB		.000	.000	BREF 1290.3000 INCHES
(M06007)	LRC UPVT 1056/1073 1A42MVB		.000	.000	XMRP 976.0000 INCHES
					YMRP 400.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 2.50

REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
YMRP	976.0000	INCHES
ZMRP	.000.0000	INCHES
SCALE	.0150	SCALE

BETA

RUDER	.000
.000	.000
.000	.000
.000	.000

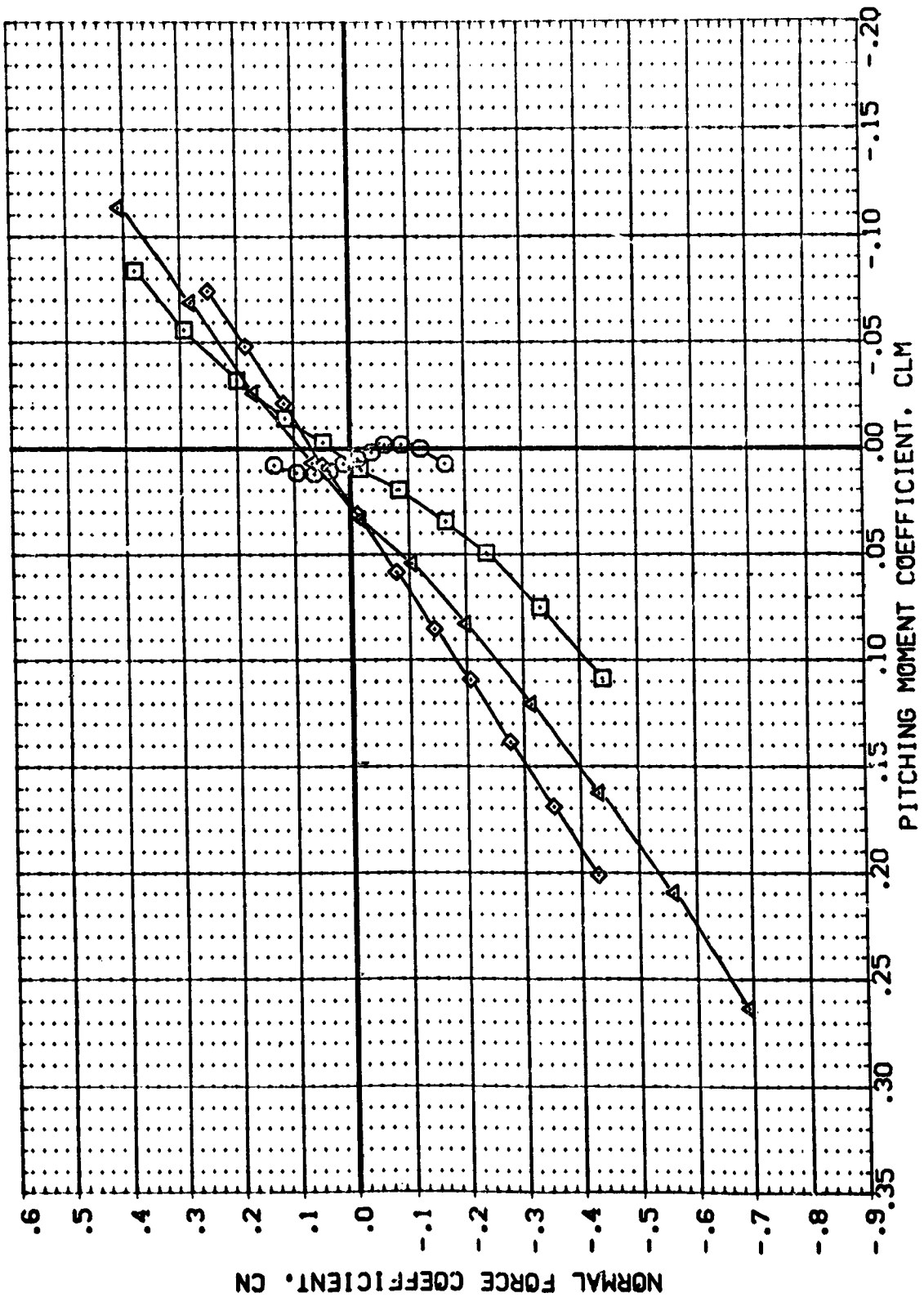
TIP1
TIP1SIP2
TIP101
TIP1SIP201

CONFIGURATION DESCRIPTION

LRC UPVT	1056/1073	IA42A/B
LRC UPVT	1056/1073	IA42A/B
LRC UPVT	1056/1073	IA42A/B
LRC UPVT	1056/1073	IA42A/B

DATA SET SYMBOL

(H06001)	Q
(H06003)	X
(H06005)	
(H06007)	



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 2.86

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA RUDDER REFERENCE INFORMATION

(C06001) LRC LPVT 1056/1073 1A42A/B .000 .000 SREF 2690.0000 50. FT.

(H06003) LRC LPVT 1056/1073 1A42A/B .000 .000 LREF 1290.3000 INCHES

(H06005) LRC LPVT 1056/1073 1A42A/B .000 .000 BREF 1290.3000 INCHES

(H06007) LRC LPVT 1056/1073 1A42A/B .000 .000 YMRP 976.0000 INCHES

YMRP 400.0000 INCHES

ZMRP 400.0000 INCHES

SCALE .0150

TIP1 .000

TIP1SIP2 .000

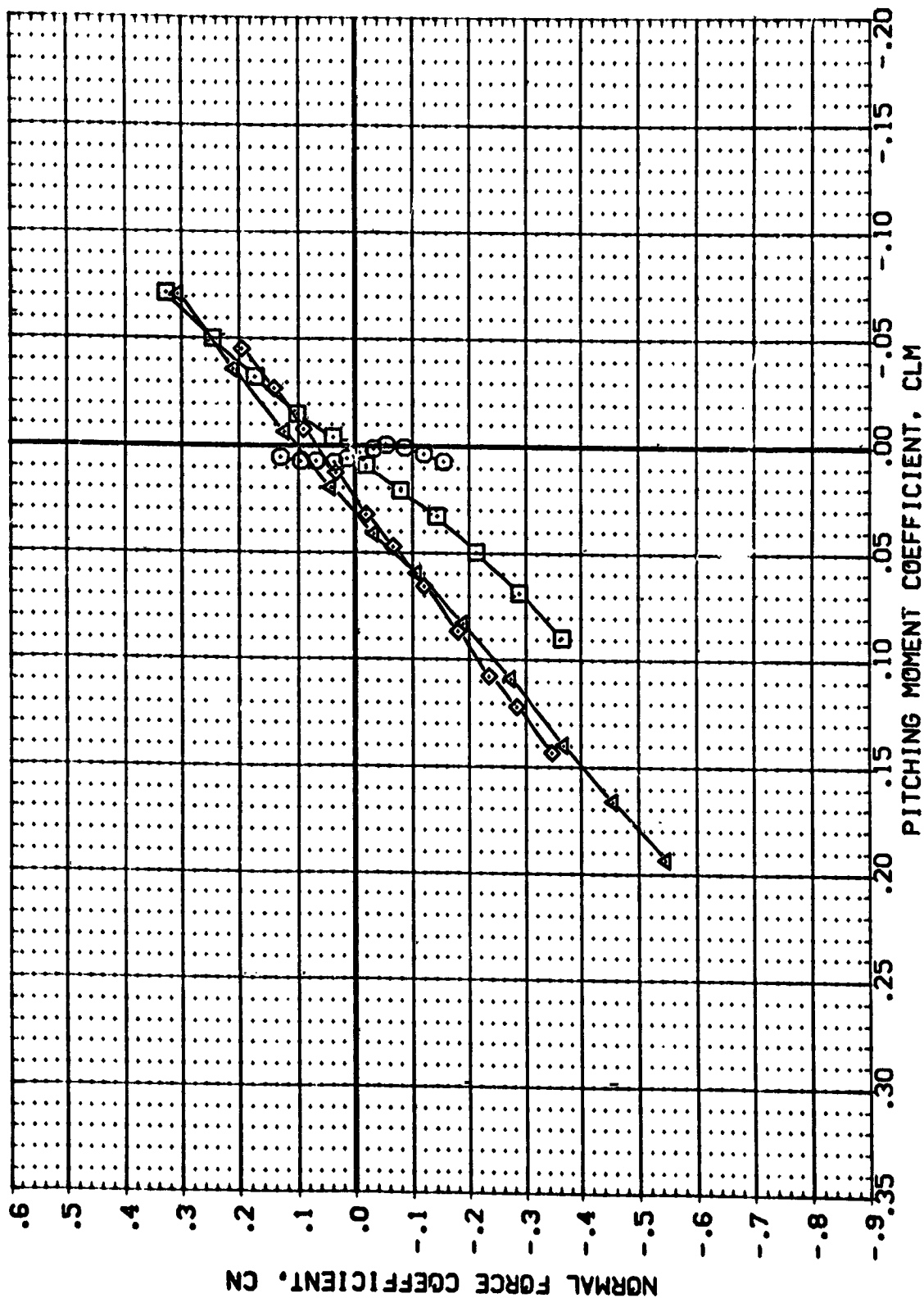
TIP101 .000

TIP1SIP201 .000

TIP1SIP201 .000

TIP1SIP201 .000

TIP1SIP201 .000



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 3.90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C06001)	LRC UPWT 1056/1073 I442A/B
(M06003)	LRC UPWT 1056/1073 I442A/B
(M06005)	LRC UPWT 1056/1073 I442A/B
(M06007)	LRC UPWT 1056/1073 I442A/B

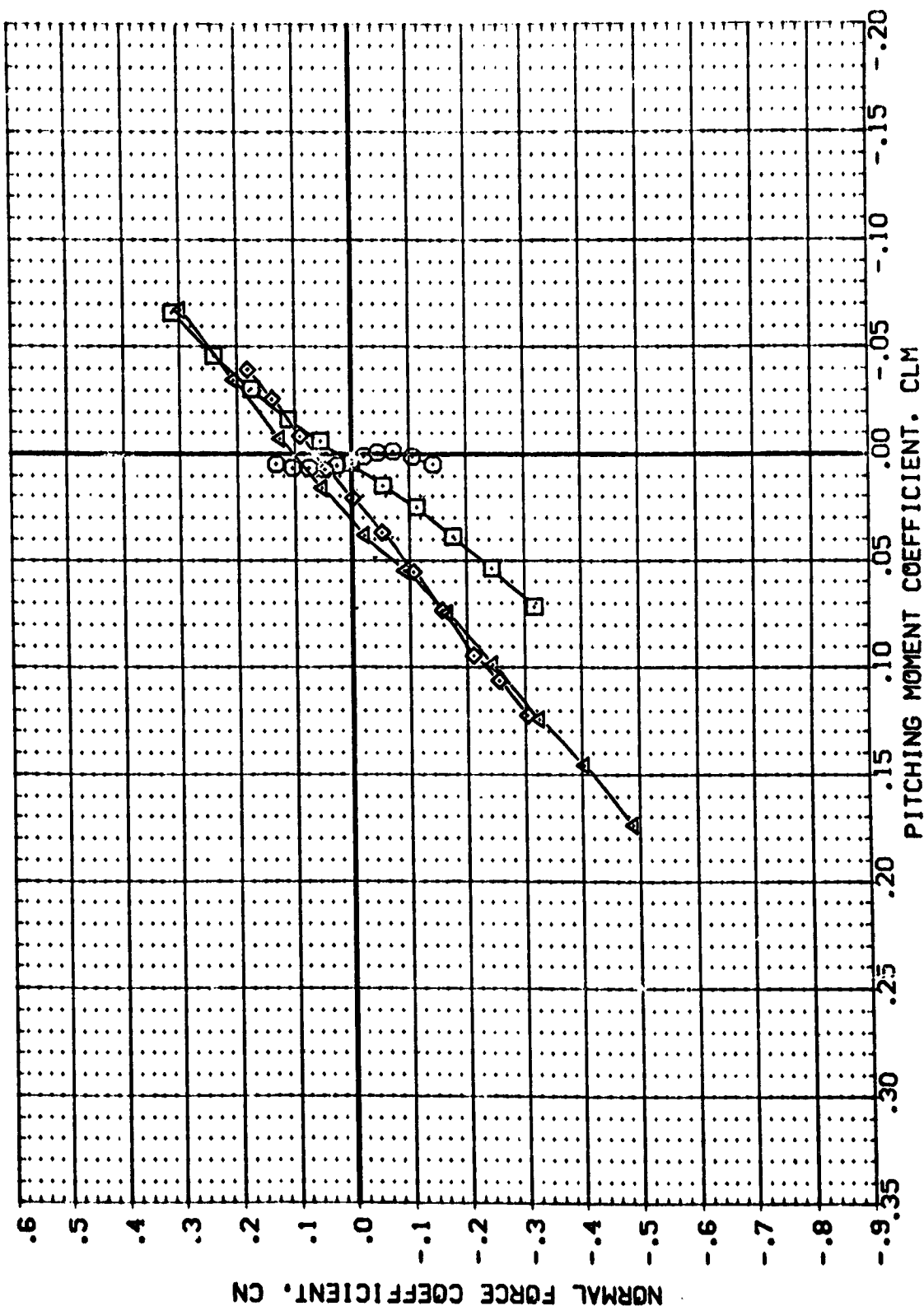
BETA RUDDER

.000	.000
.000	.000
.000	.000
.000	.000

TIP1
TIP1SIR2
TIP1D1
TIP1SIP201

REFERENCE INFORMATION

SREF	2690.0000	50. FT.
LREF	1790.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	INCHES
YMRP	400.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	.0150	SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(G)MACH = 4.63

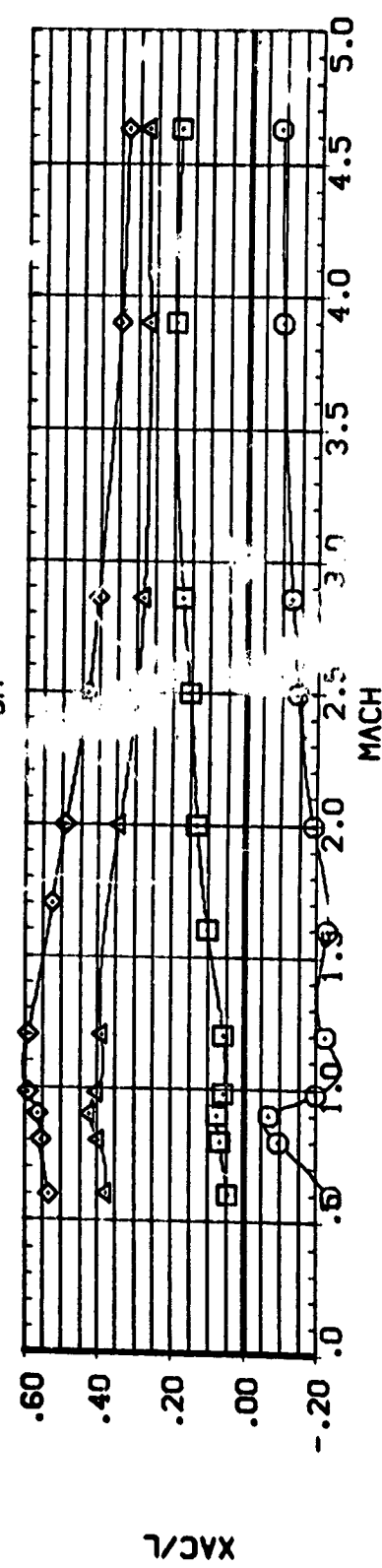
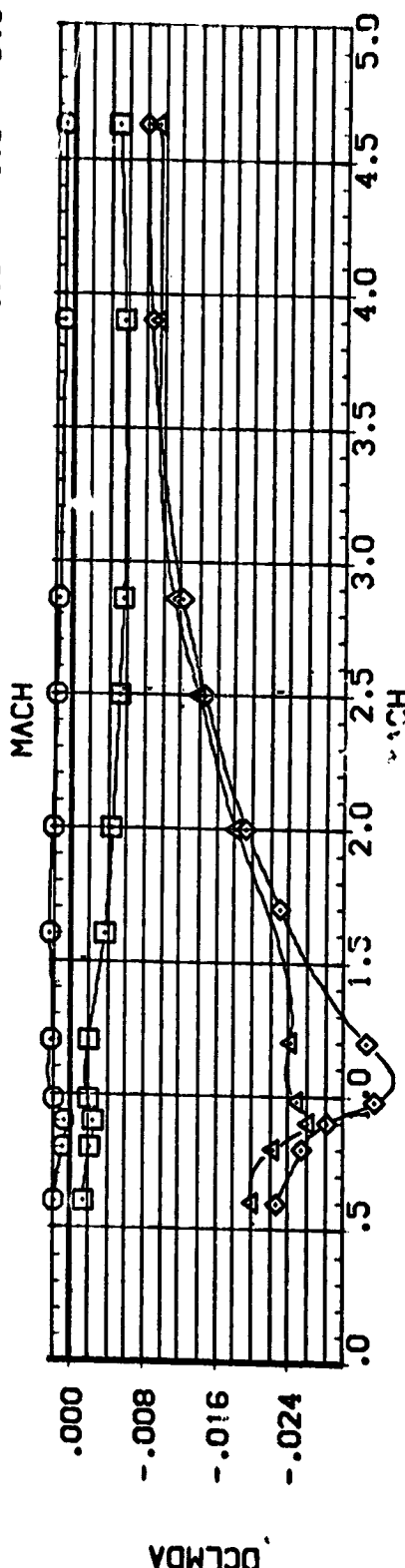
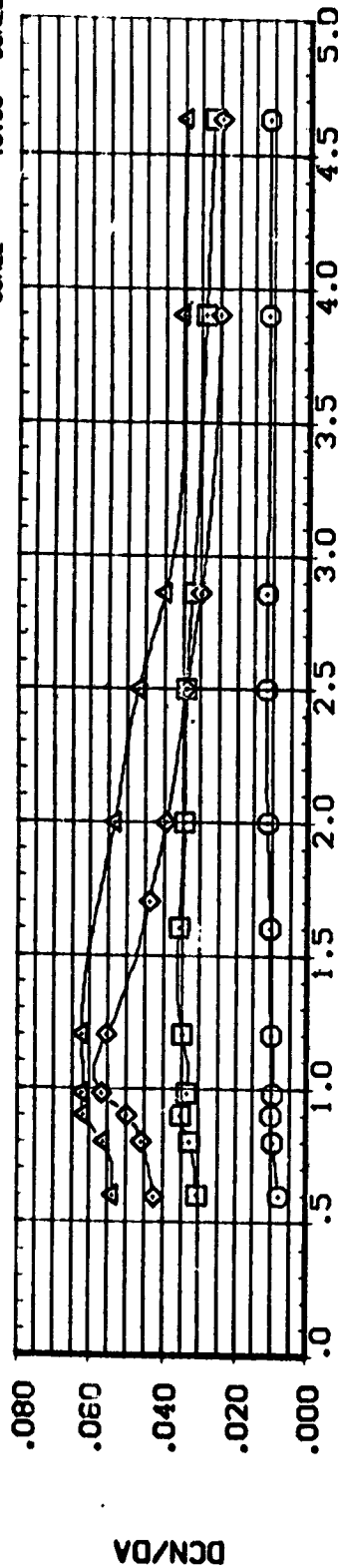


2

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(DD5001) LRC 8 TPT 667 [A4] TIP1
(DD5003) LRC 8 TPT 667 [A4] TIP1SIP2
(DD5005) LRC 8 TPT 667 [A4] TIP101
(DD5007) LRC 8 TPT 667 [A4] TIP1SIP201

BETA RUDDER
.000 .000
.000 .000
.000 .000
.000 .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP .0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION TIPI

(E06001) LRC UPVT 1056/1073 1A12A/B TIP1

(E06003) LRC 8 TPT 667 1A11 TIP1SIP2

(E06005) LRC 8 TPT 667 1A11 TIP1O1

(E06007) LRC 8 TPT 667 1A11 TIP1SIP201

BETA RUDDER

.000 .000

.000 .000

.000 .000

.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

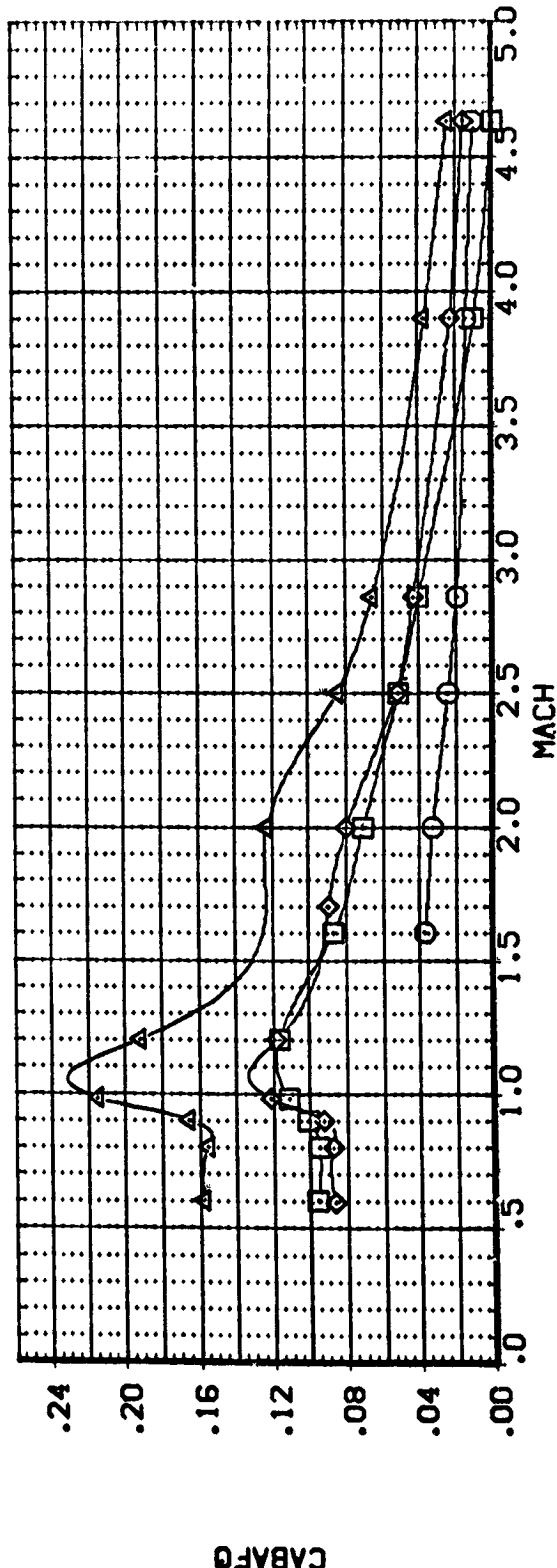
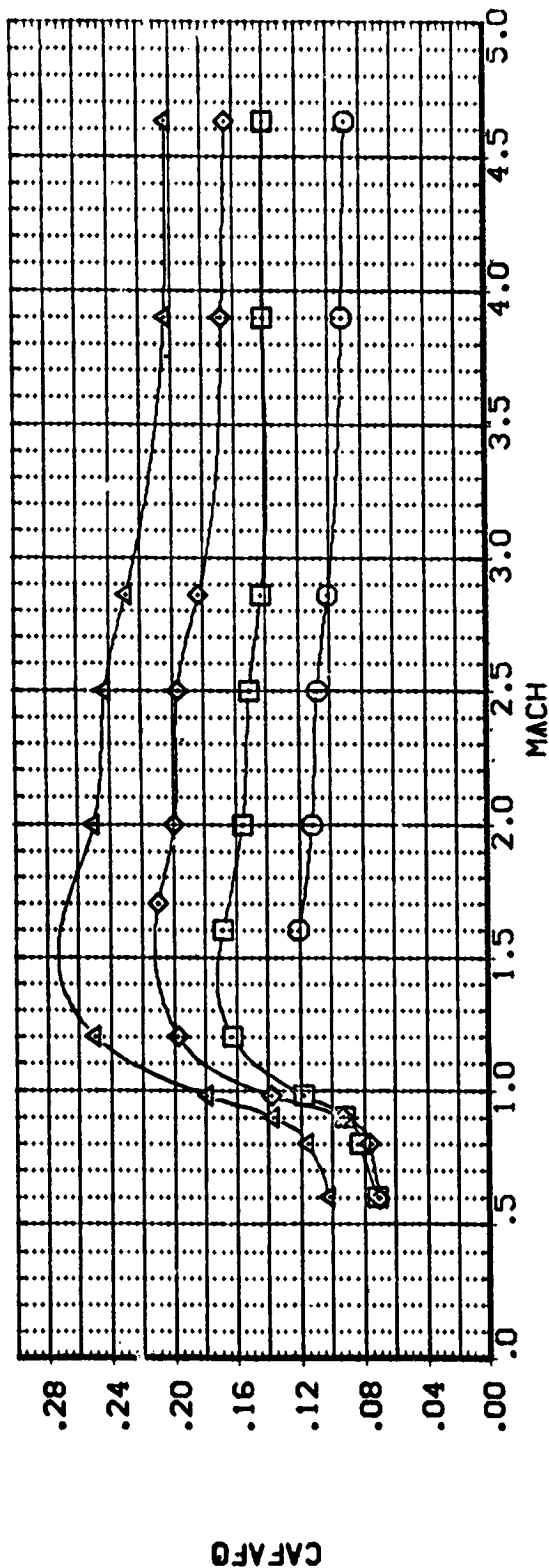
LREF 1290.3000 INCHES

BREF 1290.3000 INCHES

VMRP 976.0000 INCHES

ZMRP 400.0000 INCHES

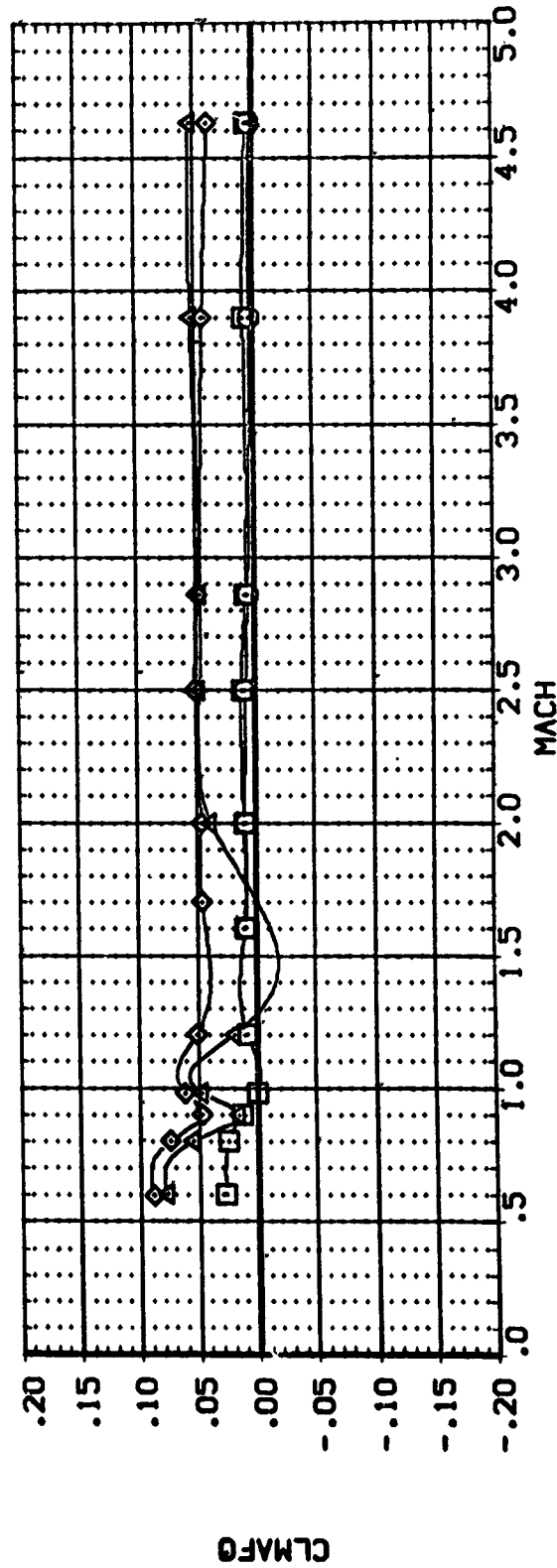
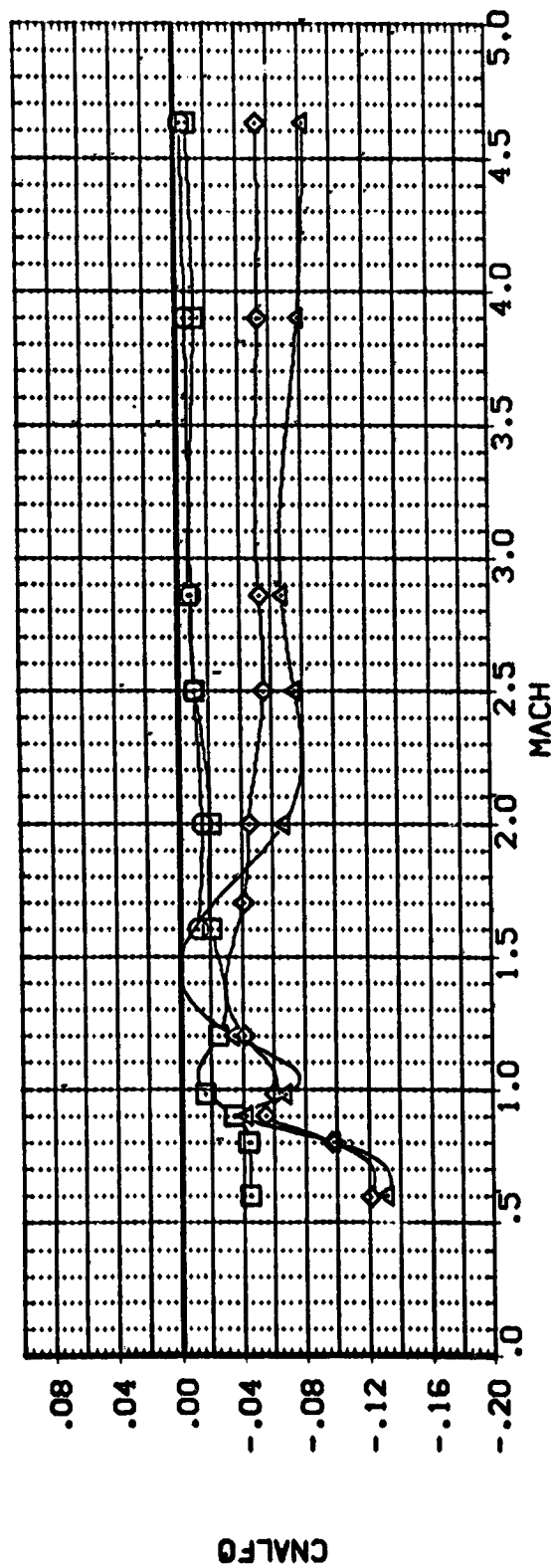
SCALE .0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(E06001)	LRC UPVT 1056/1073 1A42AB	.000	.000	SREF 2690.0000 50. FT.
(E06003)	LRC 8 TPT 667 1A41 TIP1S1P2	.000	.000	LREF 1290.3000 INCHES
(E06005)	LRC 8 TPT 667 1A41 TIP101	.000	.000	BREF 1290.3000 INCHES
(E06007)	LRC 8 TPT 667 1A41 TIP1S1P201	.000	.000	XPRP 576.0000 INCHES
				YPRP .0000 INCHES
				ZPRP 400.0000 INCHES
				SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

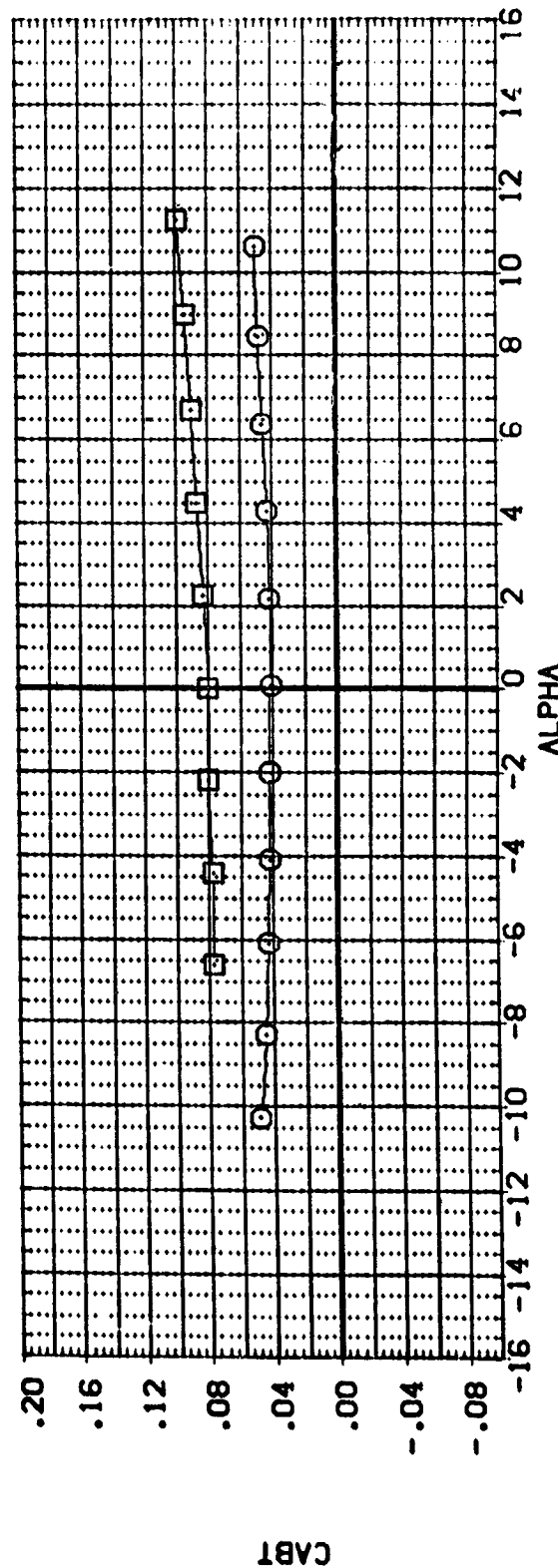
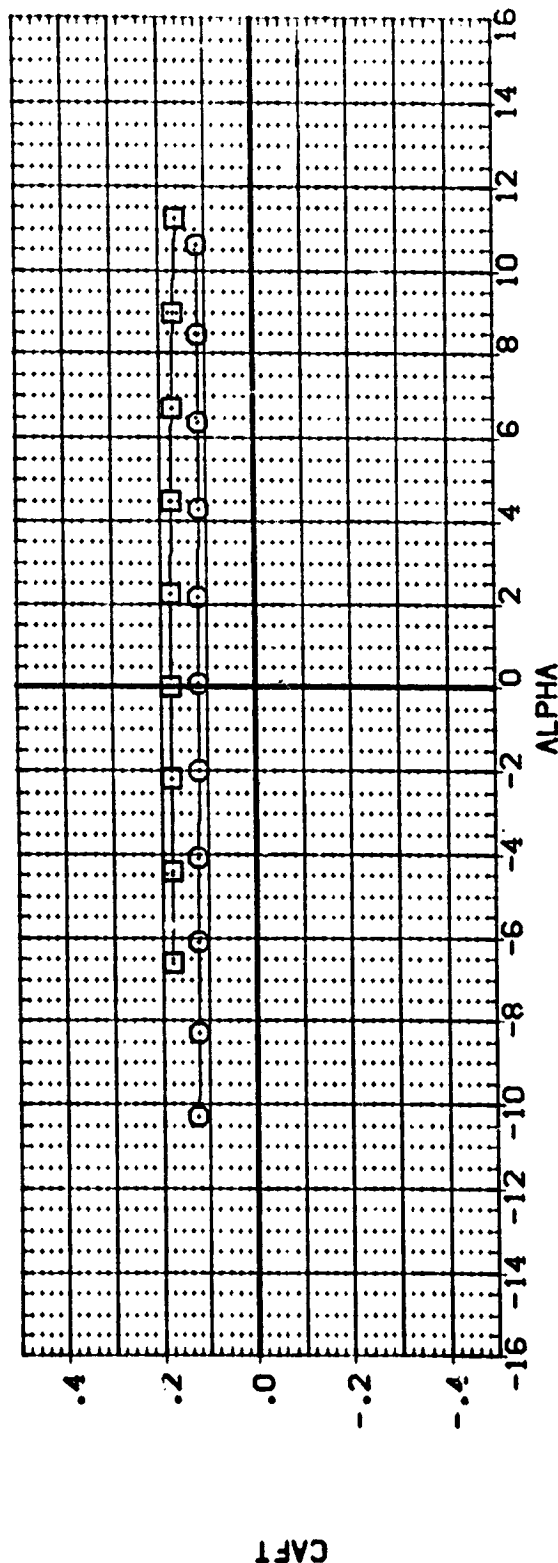
DATA SET SYMBOL: (C05002) (D05004) (D05006) (H05008)

CONFIGURATION DESCRIPTION:
LRC UPWT 1056/1073 1A42A/B
DATA NOT AVAILABLE
DATA NOT AVAILABLE

TIP: 1:015IP2

BETA: 5.000
RUDDER: .000
5.000
5.000
5.000

REFERENCE INFORMATION:
SREF: 2690.0000 50 FT.
LREF: 1290.3000 INCHES
BREF: 1290.3000 INCHES
XMRP: 976.0000 INCHES
YMRP: 400.0000 INCHES
ZMRP: 400.0000 INCHES
SCALE: .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 1.60

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

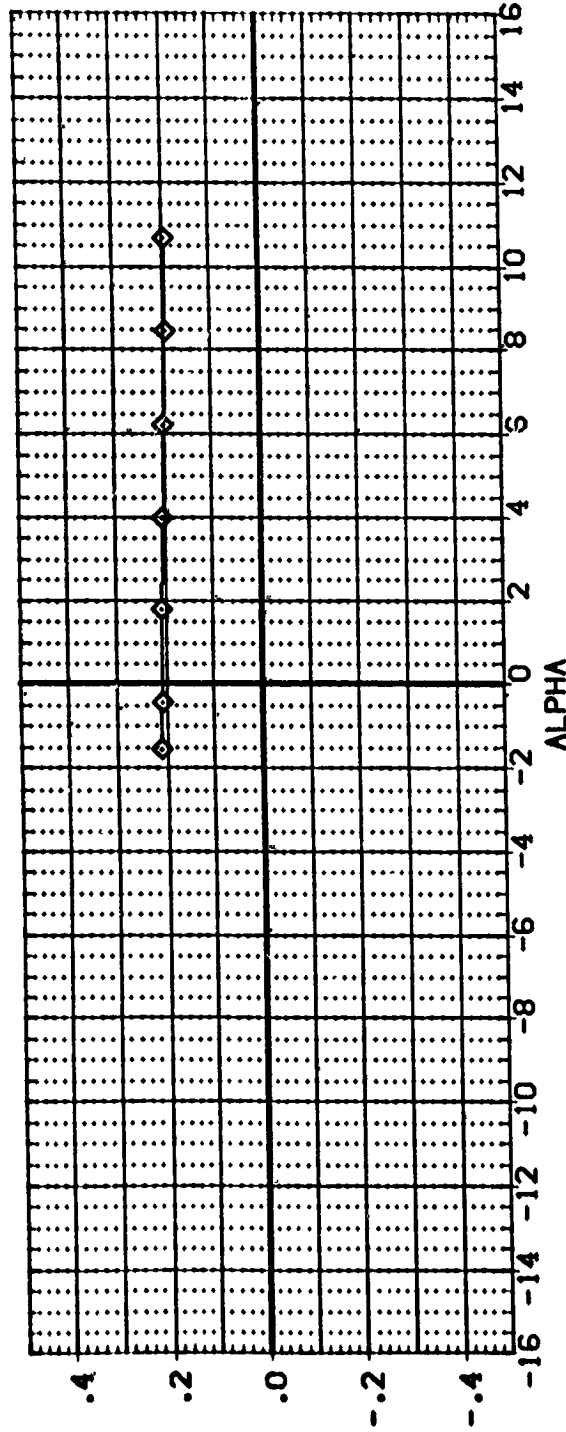
BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000
 5.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C05002) DATA NOT AVAILABLE
 (D05004) DATA NOT AVAILABLE
 (D05006) LRC UPVT 1056/1073
 (H05008) DATA NOT AVAILABLE

TIP101

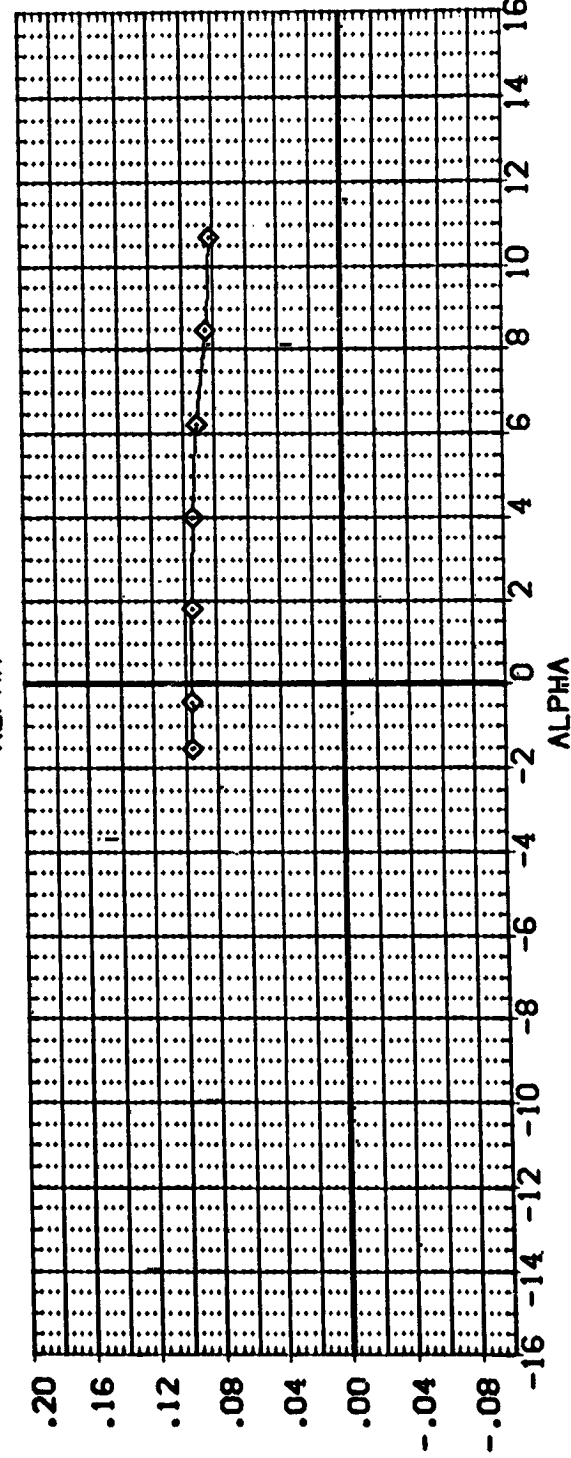
1A42A/B

CAFT



ALPHA

CAFT



ALPHA

CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 1.70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C06002)	LRC UPVT 1056/1073	IA42A/B
(D06004)	LRC UPVT 1056/1073	IA42A/B
(D06006)	LRC UPVT 1056/1073	IA42A/B
(D06008)	LRC UPVT 1056/1073	IA42A/B

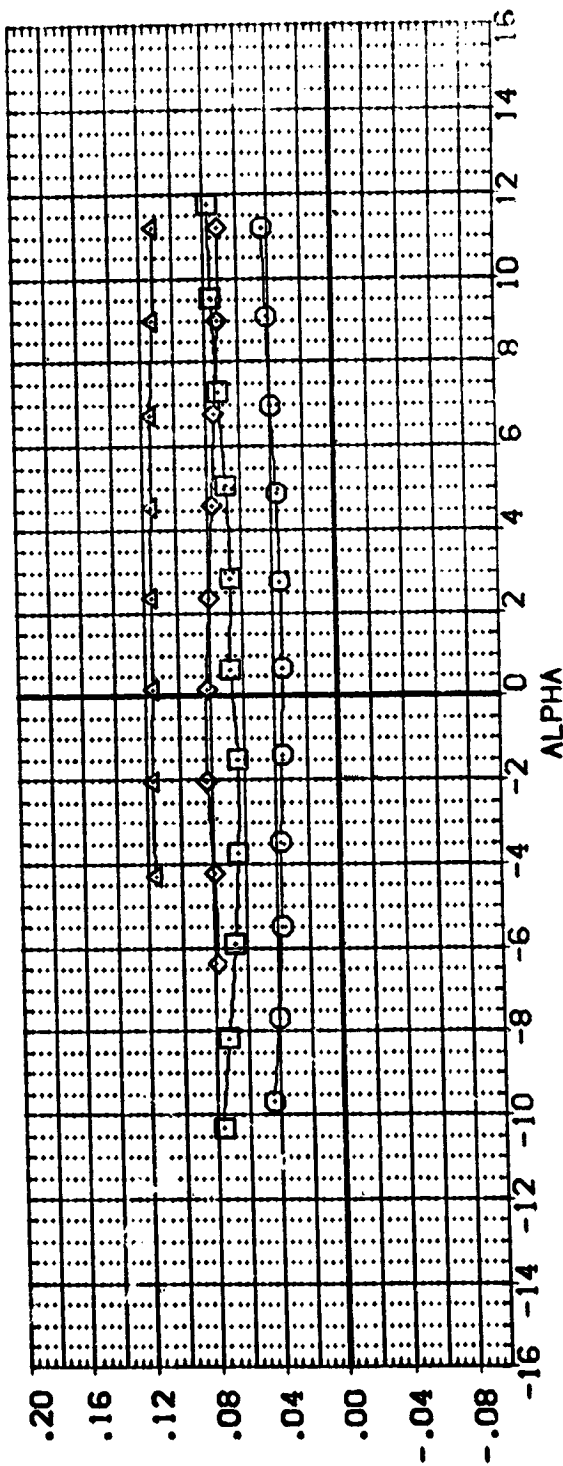
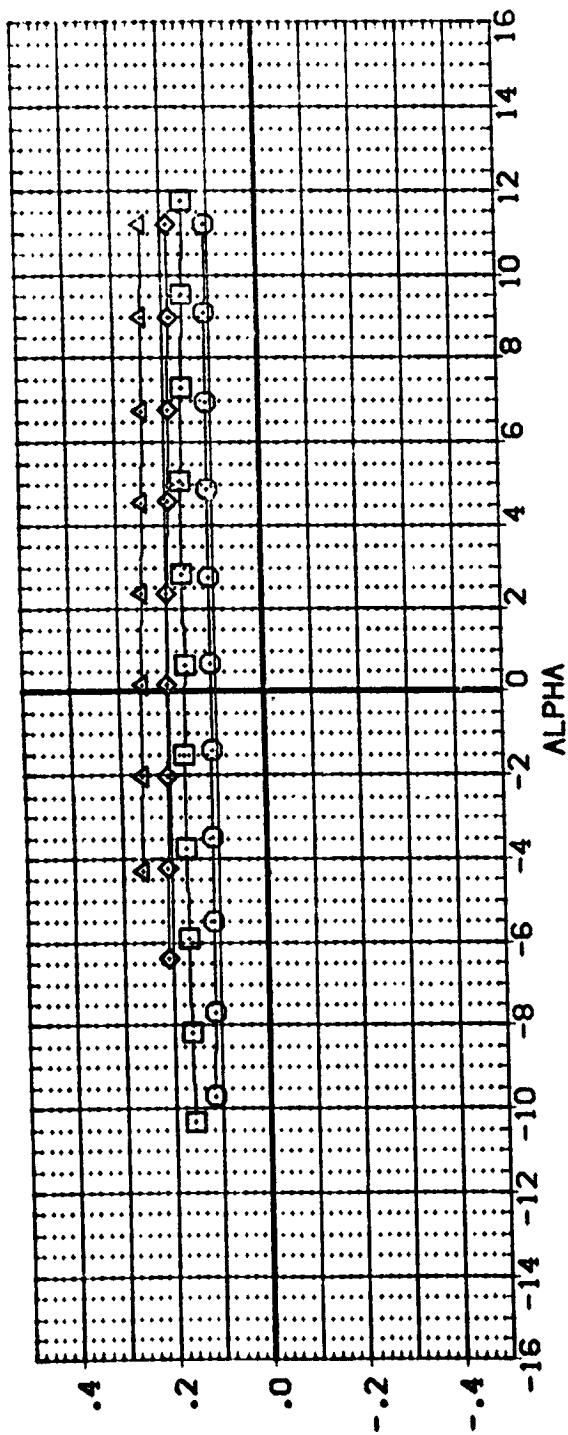
TIP1
TIP15IP2
TIP101
TIP15IP201

BETA RUDDER

5.000	.000
5.000	.000
5.000	.000
5.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	INCHES
YMRP	400.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	.0150	SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.00

DATA SET SYMBOL
(C05002)
(D05004)
(D05006)
(H05008)

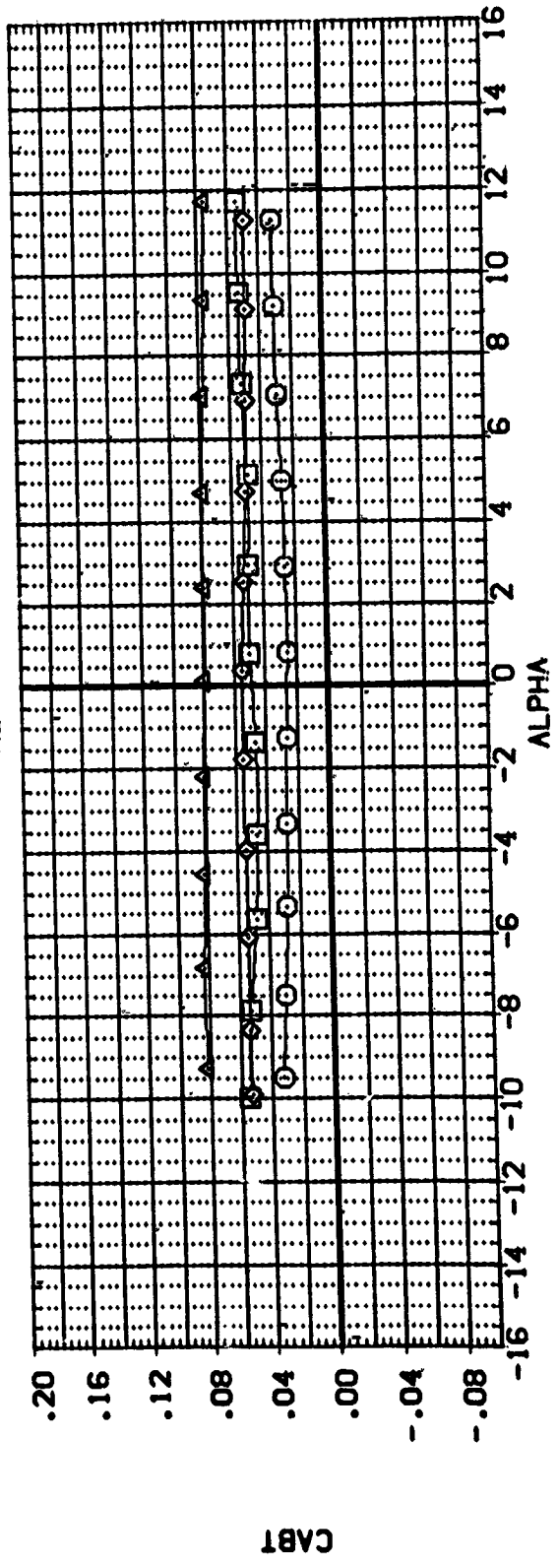
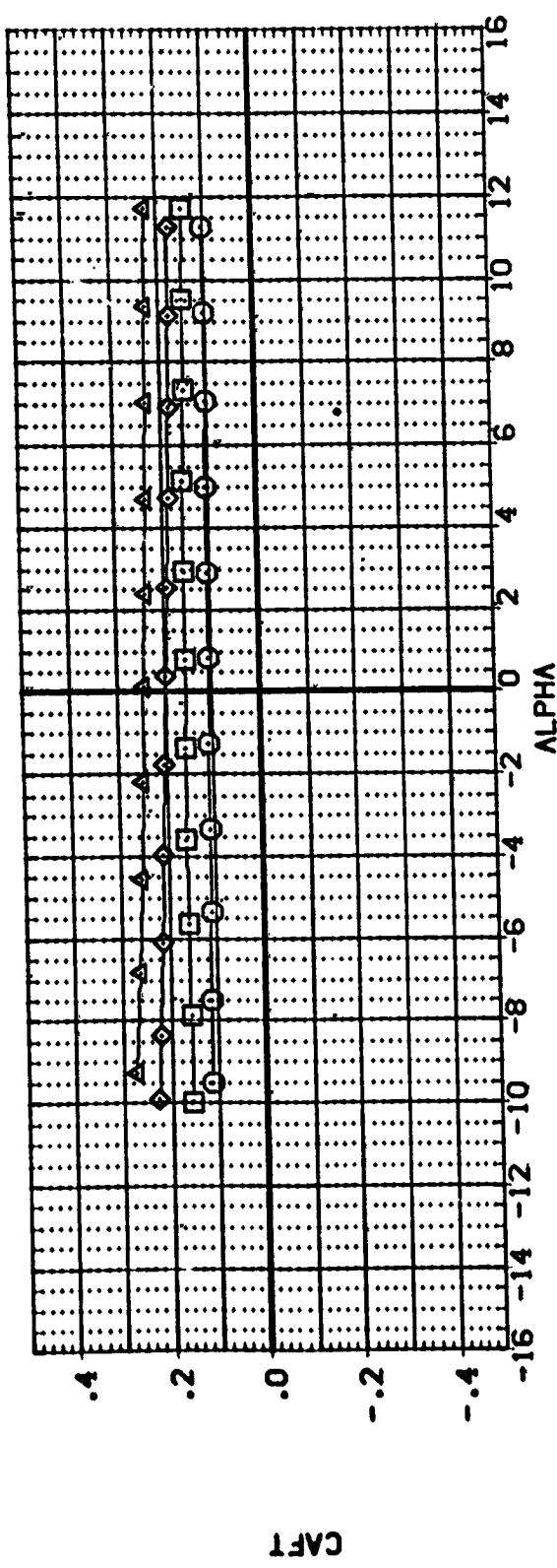
CONFIGURATION DESCRIPTION
LRC UPVT 1056/1073 1A42A/B
LRC UPVT 1056/1073 1A42A/B
LRC UPVT 1056/1073 1A42A/B
LRC UPVT 1056/1073 1A42A/B

TIP
TIP1
TIP101
TIP1SIP201

BETA
5.000
5.000
5.000
5.000

RUDER
.000
.000
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 50 FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 2.50

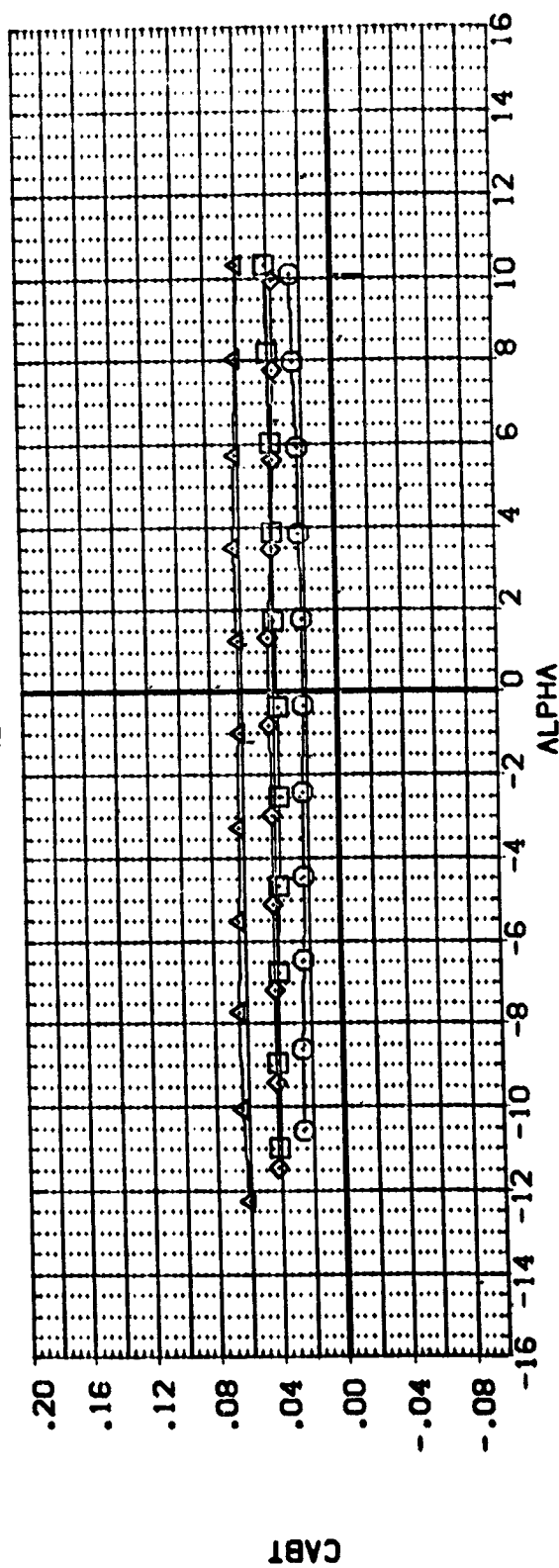
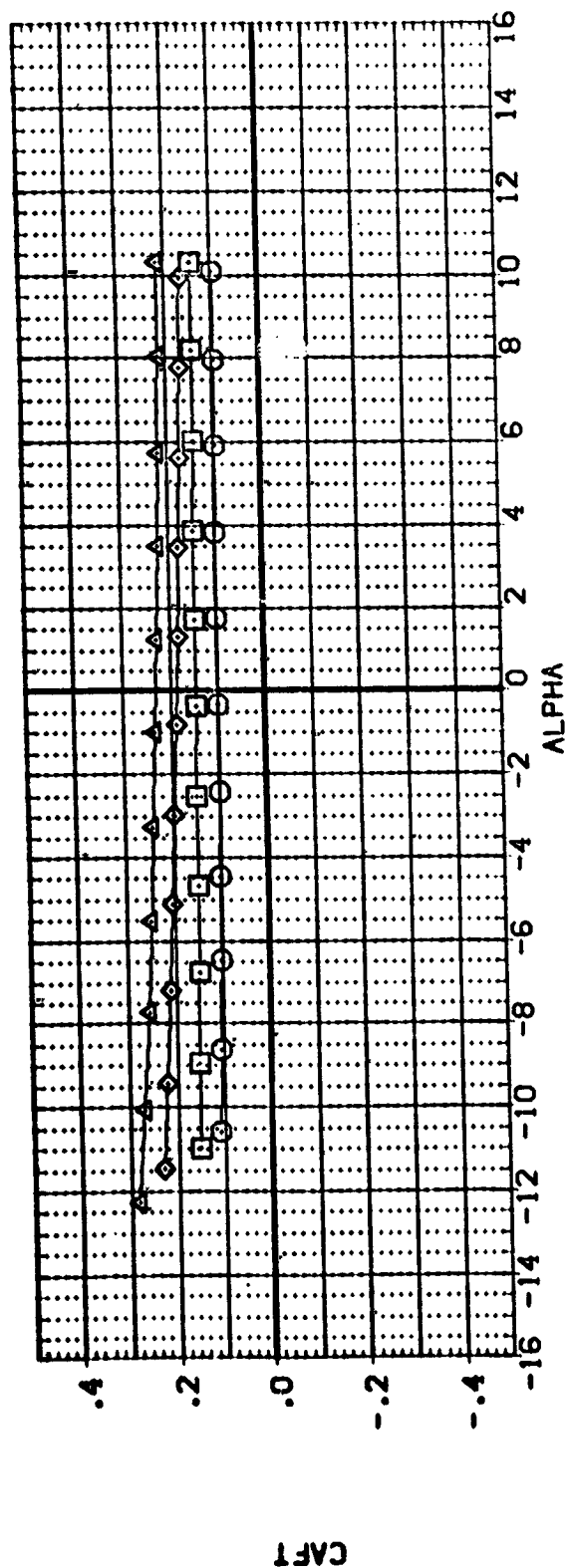
REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP .0150 INCHES
 SCALE

BETA
 5.000
 5.000
 5.000
 5.000

TIP1
 TIP1SIP2
 TIP1O1
 TIP1SIP2O1

CONFIGURATION DESCRIPTION
 LRC LPVT 1056/1073 IM2A/B
 LRC LPVT 1056/1073 IM2A/B
 LRC LPVT 1056/1073 IM2A/B
 LRC LPVT 1056/1073 IM2A/B

DATA SET SYMBOL
 (C05002)
 (D05004)
 (D05006)
 (H05008)



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 2.86

DATA SET SYMBOL
(C06002)
(D06004)
(D06006)
(H06008)

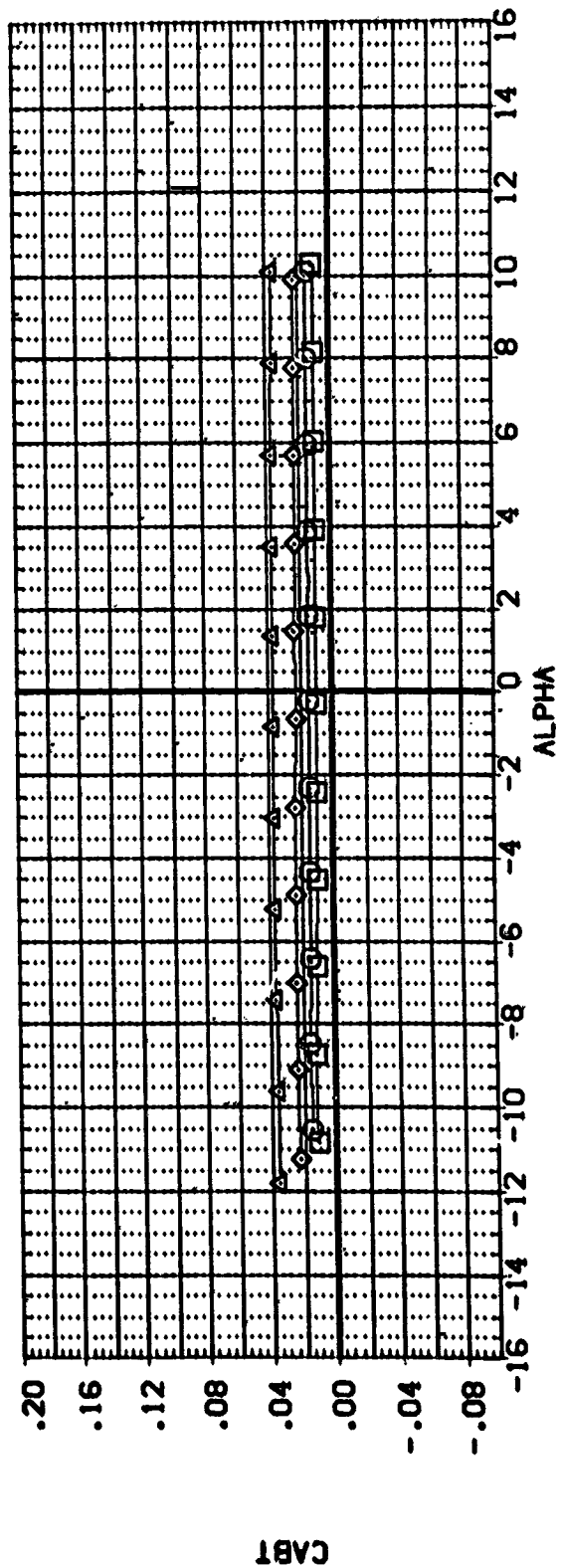
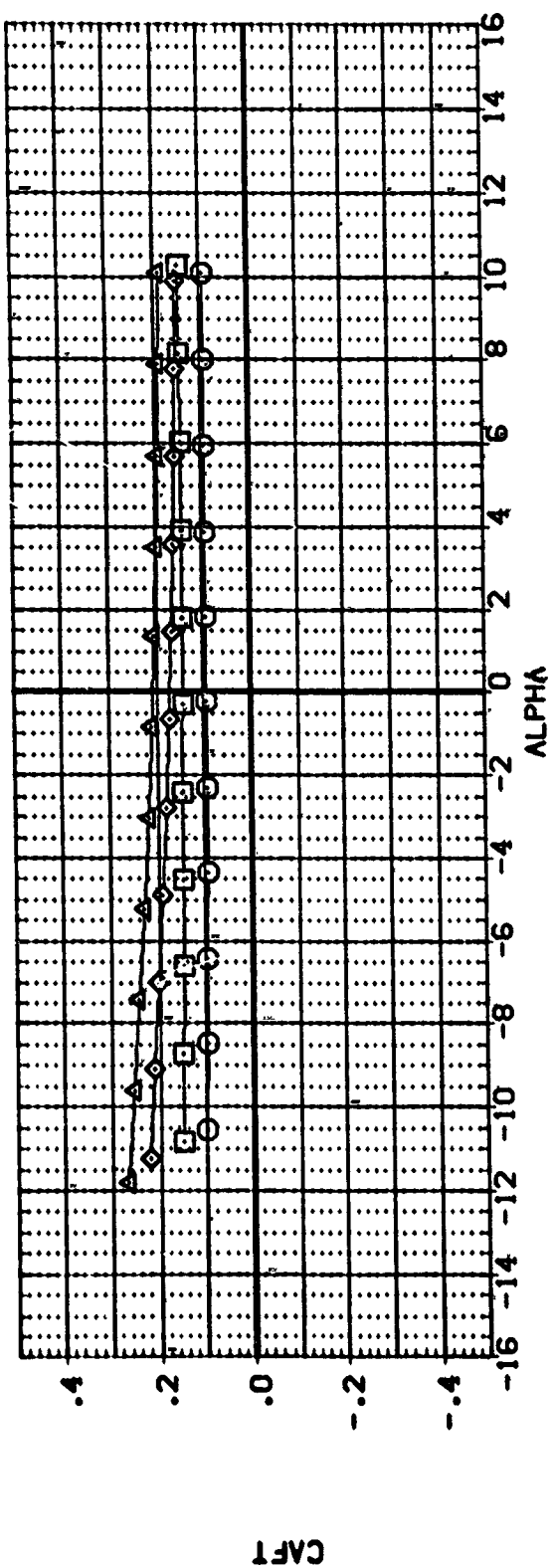
CONFIGURATION DESCRIPTION
LRC UPWT 1056/1073 1A42A/B
LRC UPWT 1056/1073 1A42A/B
LRC UPWT 1056/1073 1A42A/B
LRC UPWT 1056/1073 1A42A/B

TIP
TIPISIP2
TIP101
TIPISIP201

BETA
5.000
5.000
5.000
5.000

RUDDER
.000
.000
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 50. FT
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 3.90

DATA SET SYMBO
 (C06002)
 (D06004)
 (D06006)
 (H06008)

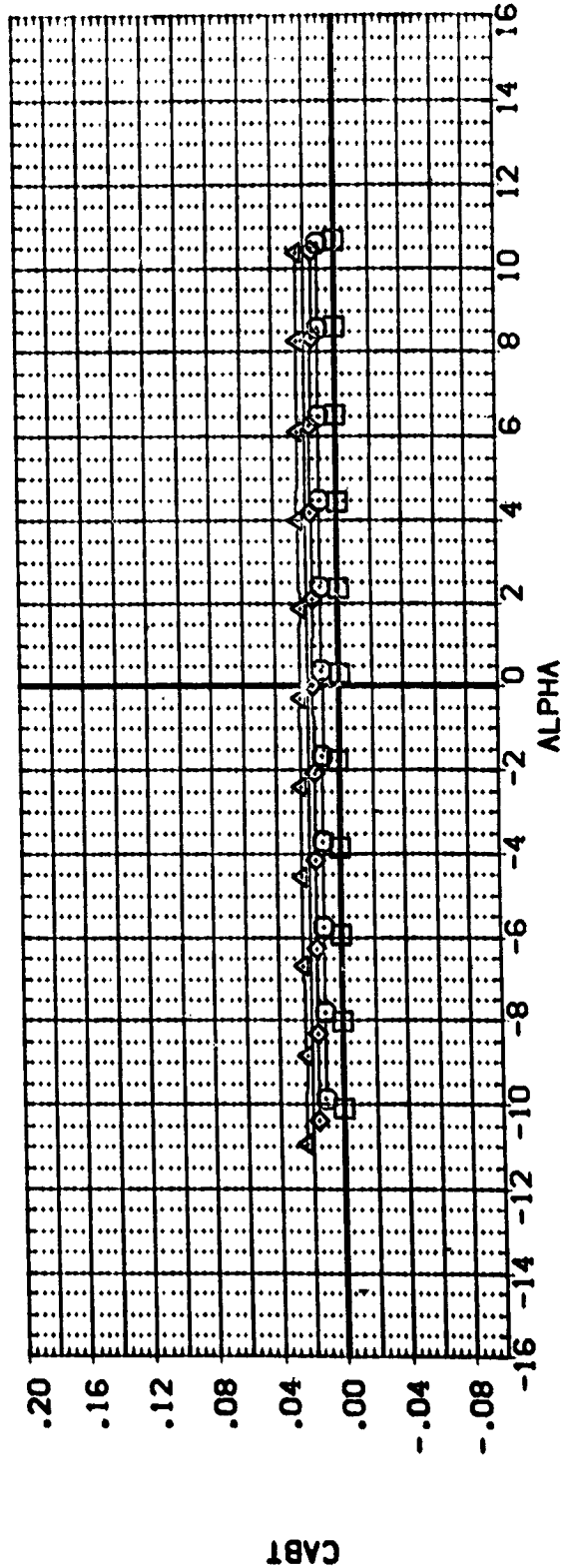
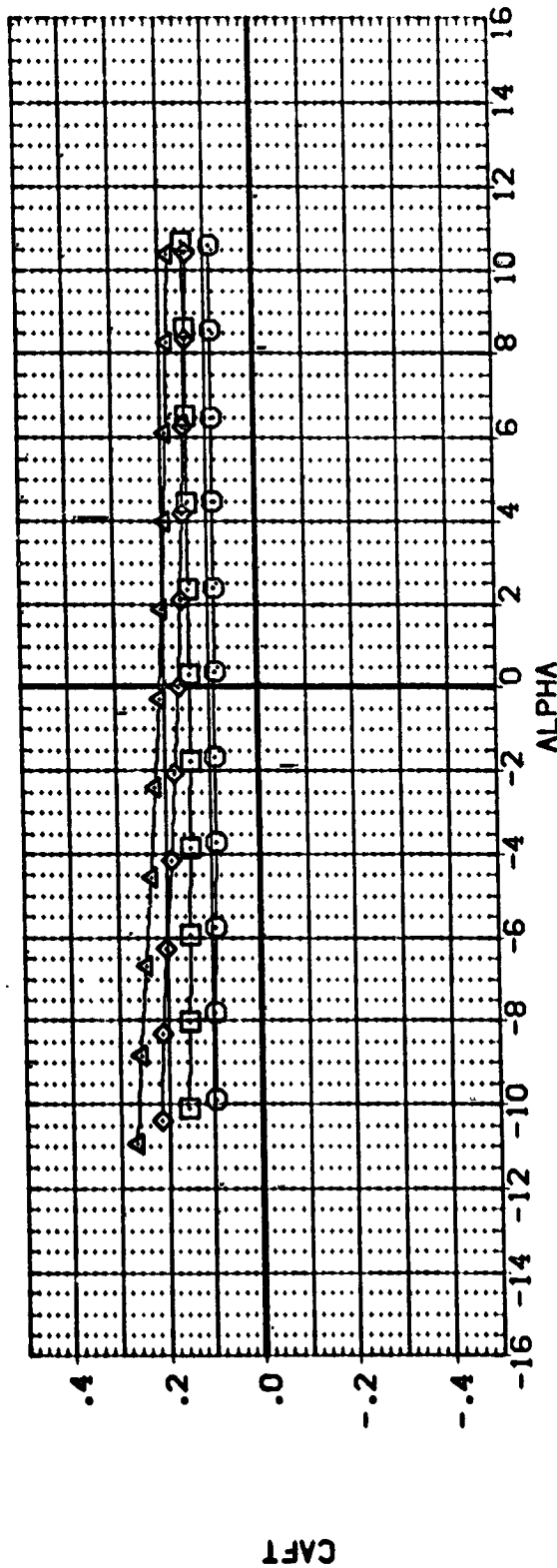
CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 IM42N/B
 LRC UPVT 1056/1073 IM42N/B
 LRC UPVT 1056/1073 IM42N/B
 LRC UPVT 1056/1073 IM42N/B

TIP1
 TIPISIP2
 TIP101
 TIPISIP201

BETA
 5.000
 5.000
 5.000
 5.000

RUDDER
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

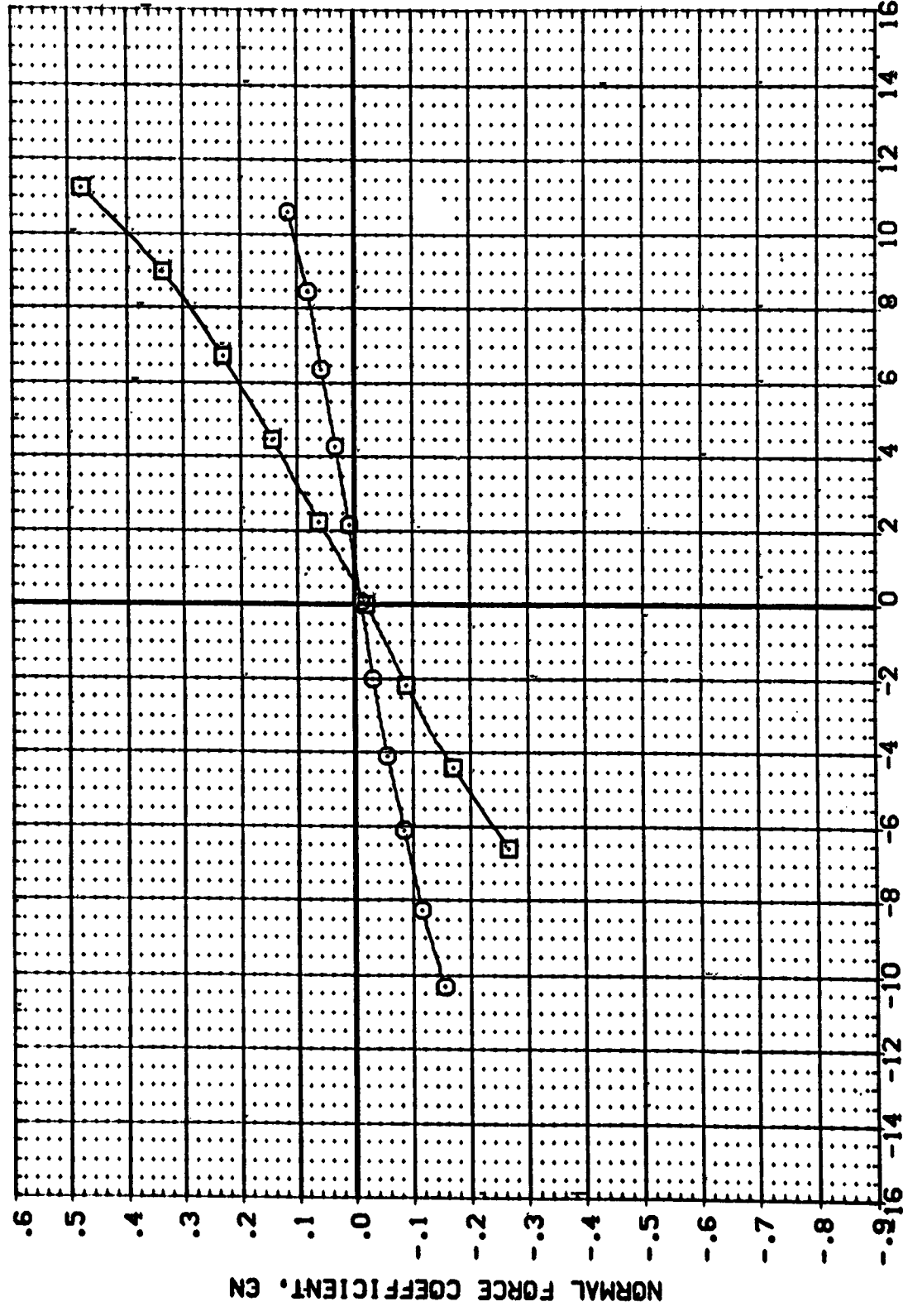


CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(G)MACH = 4.63

1

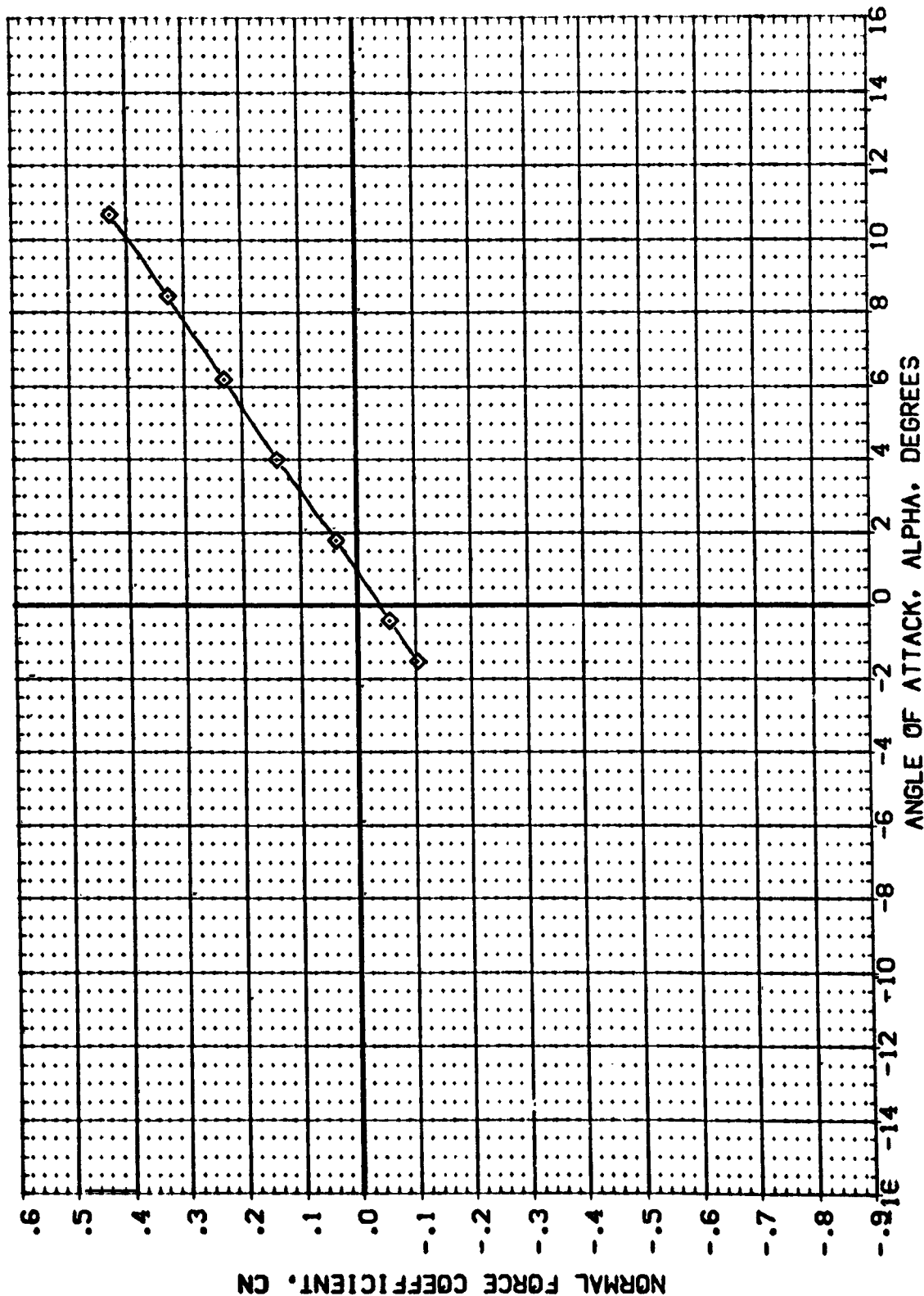
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	TIP2	BETA	RUDDER	REFERENCE INFORMATION
(C06002)	LRC UPVT 1056/1073 1A42A/B	TIP1	TIP2	5.000	.000	SREF 2690.0000 SQ.FT.
(D06004)	LRC UPVT 1056/1073 1A42A/B			5.000	.000	LREF 1290.3000 INCHES
(D06005)	DATA NOT AVAILABLE			5.000	.000	BREF 1290.3000 INCHES
(H06008)	DATA NOT AVAILABLE					XPRP 976.0000 INCHES
						YPRP 400.0000 INCHES
						ZPRP 400.0000 INCHES
						SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(06002)	DATA NOT AVAILABLE	5.000	.000	SREF 2690.0000 SQ.FT.
(06004)	DATA NOT AVAILABLE	5.000	.000	LREF 1290.3000 INCHES
(06006)	LRC UPVT 1056/1073	5.000	.000	BREF 1290.3000 INCHES
(06008)	DATA NOT AVAILABLE	5.000	.000	XMPP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150

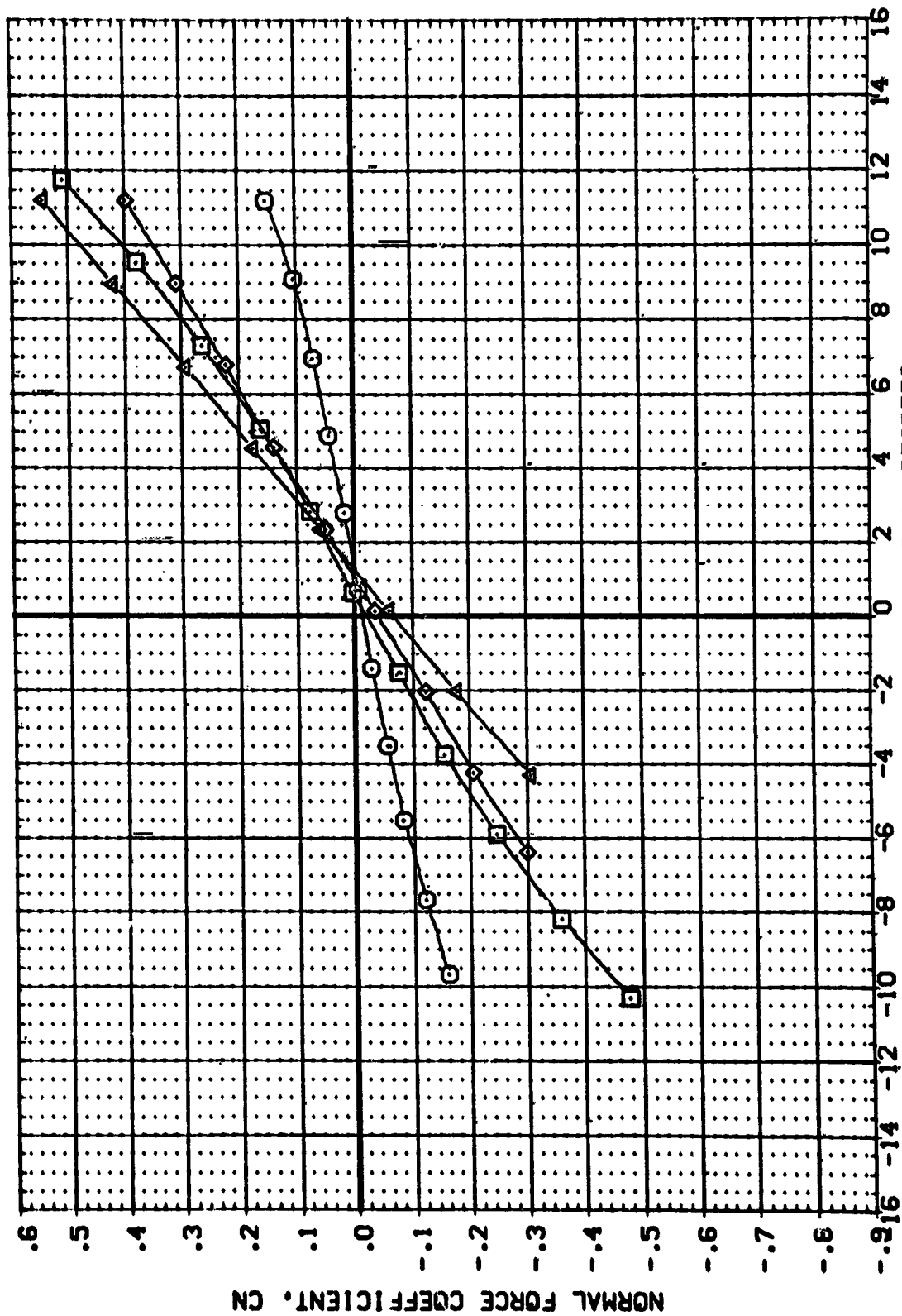


CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 1.70



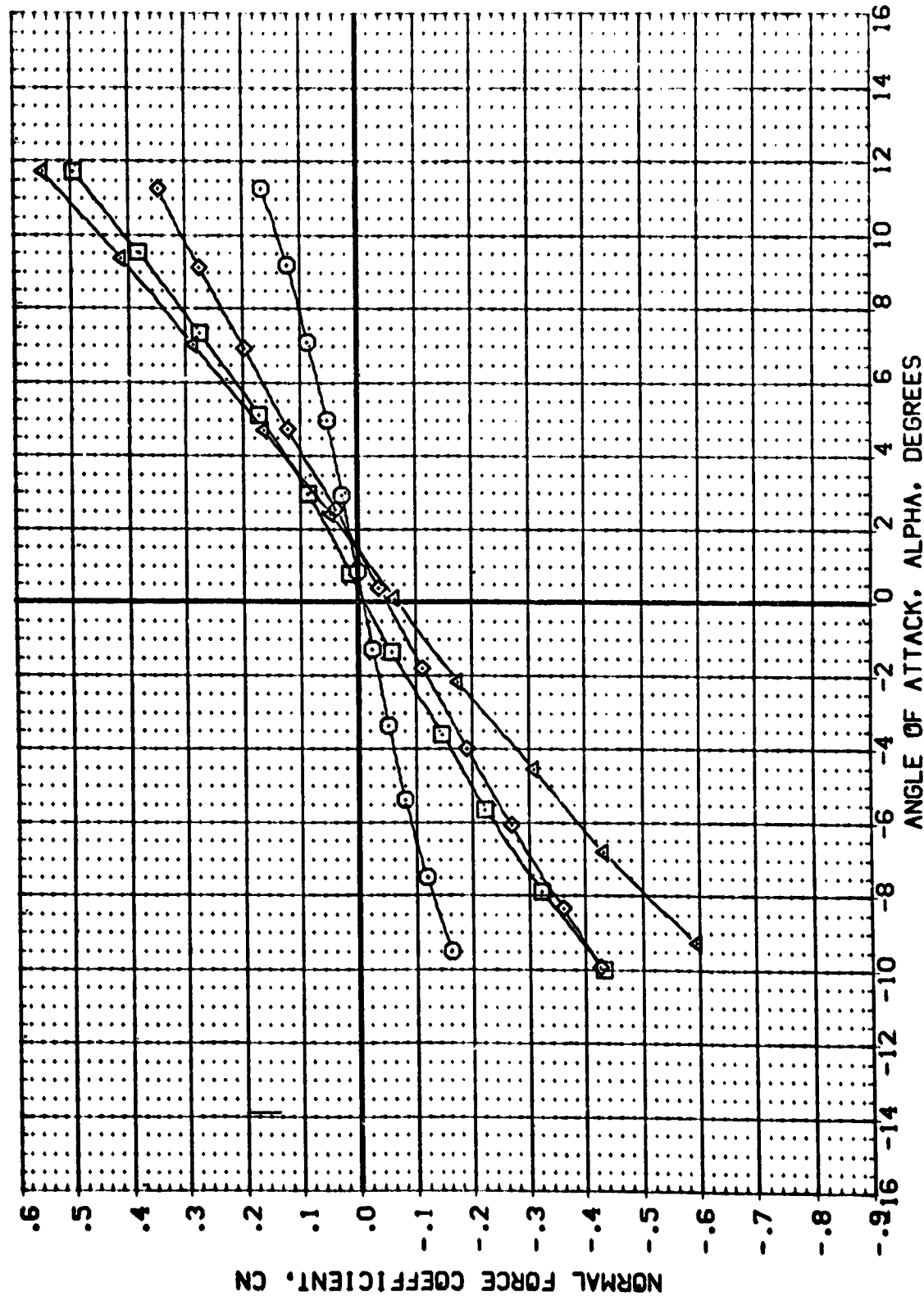
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP	BETA	RUDDER	REFERENCE INFORMATION
(06002)	LRC UPVT 1056/1073 1A42A/B	TIP1	5.000	.000	SREF 2690.0000 50 FT.
(06004)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	LREF 1290.3000 INCHES
(06006)	LRC UPVT 1056/1073 1A42A/B	TIP1D1	5.000	.000	BREF 1290.3000 INCHES
(06008)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2D1	5.000	.000	XREF 976.0000 INCHES
					YREF 400.0000 INCHES
					ZREF .0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.00

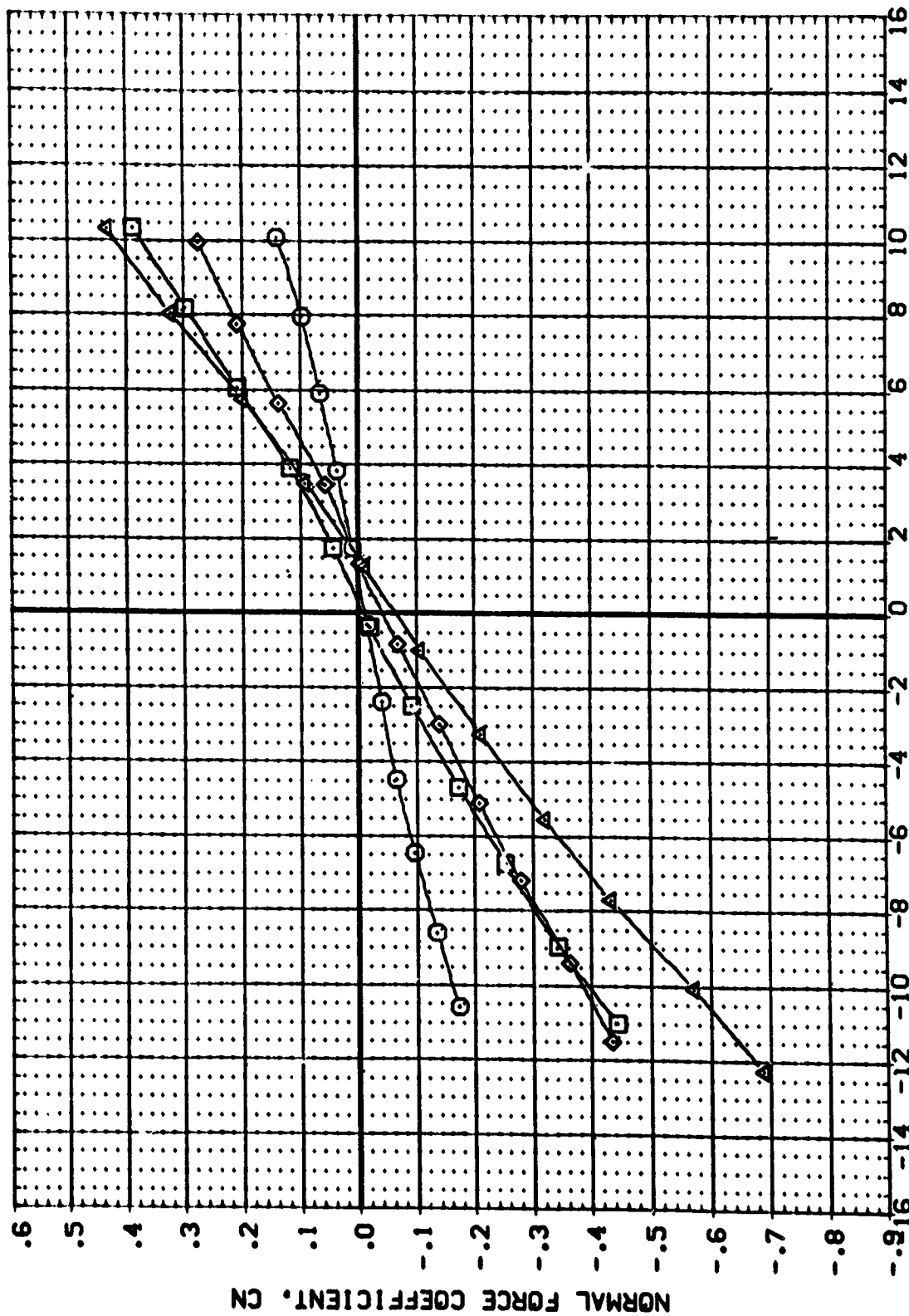
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1 TIP1SIP2	BETA	RUDDER	REFERENCE INFORMATION
(C05002)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	SREF 2690.0000 SQ.FT.
(D06004)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	LREF 1290.3000 INCHES
(D06006)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	BREF 1290.3000 INCHES
(H06008)	LRC UPVT 1056/1073 1A42A/B	TIP1SIP201	5.000	.000	YARP 976.0000 INCHES
					ZARP 400.0000 INCHES
					SCALE .0150 INCHES



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 2.50

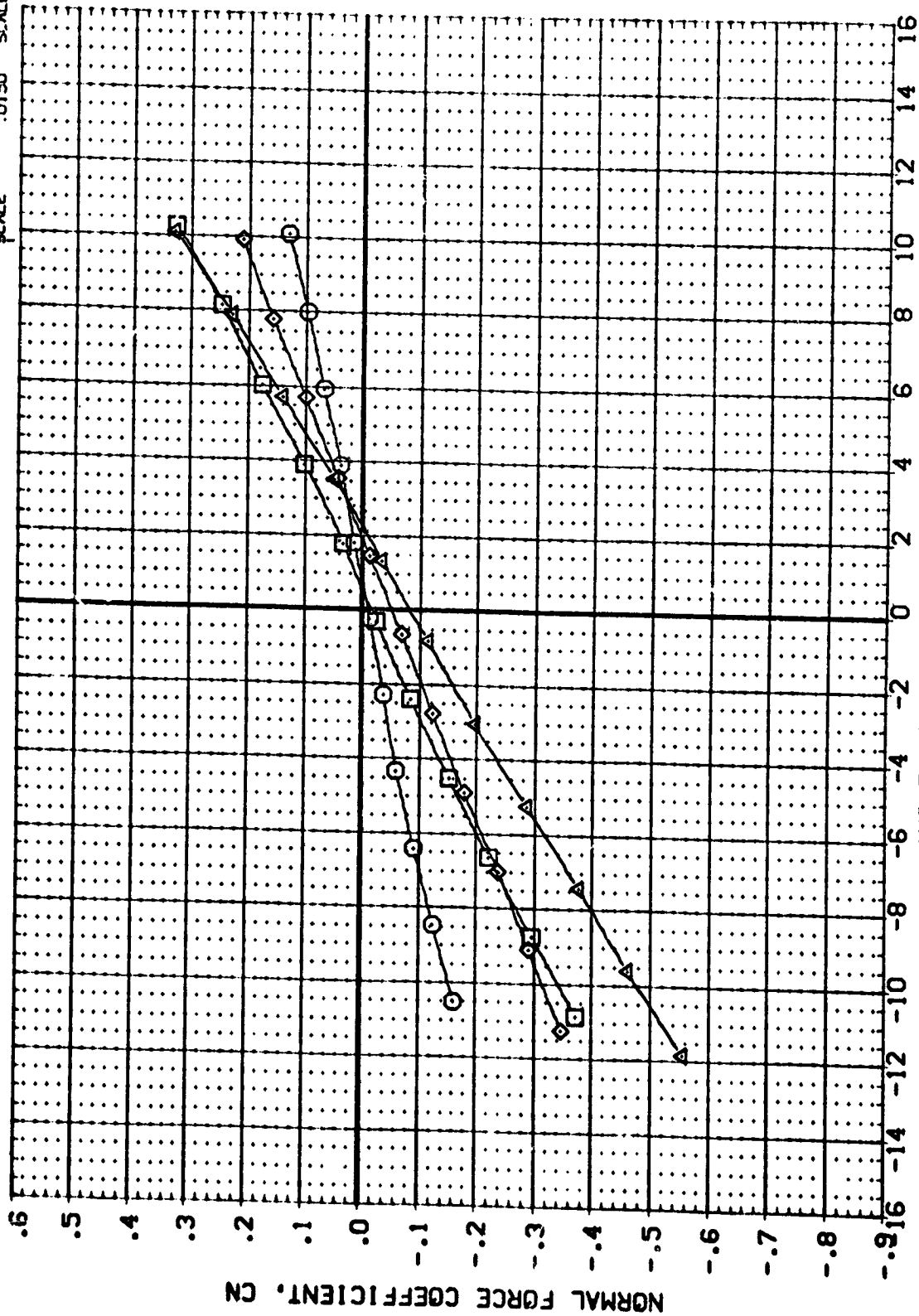
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1 TIP1SIP2 TIP1OI TIP1SIP2OI	BETA	RUDDER	REFERENCE INFORMATION
CO6002	LRC UPVT 1056/1073 I42A/B		5.000	.000	SREF 2690.0000 SO.FT.
DO6004	LRC UPVT 1056/1073 I42A/B		5.000	.000	LRE 1290.3000 INCHES
DO6006	LRC UPVT 1056/1073 I42A/B		5.000	.000	BREF 1290.3000 INCHES
MO6008	LRC UPVT 1056/1073 I42A/B		5.000	.000	XRRP 976.0000 INCHES
					YRRP .0000 INCHES
					ZRRP 400.0000 INCHES
					SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 2.86

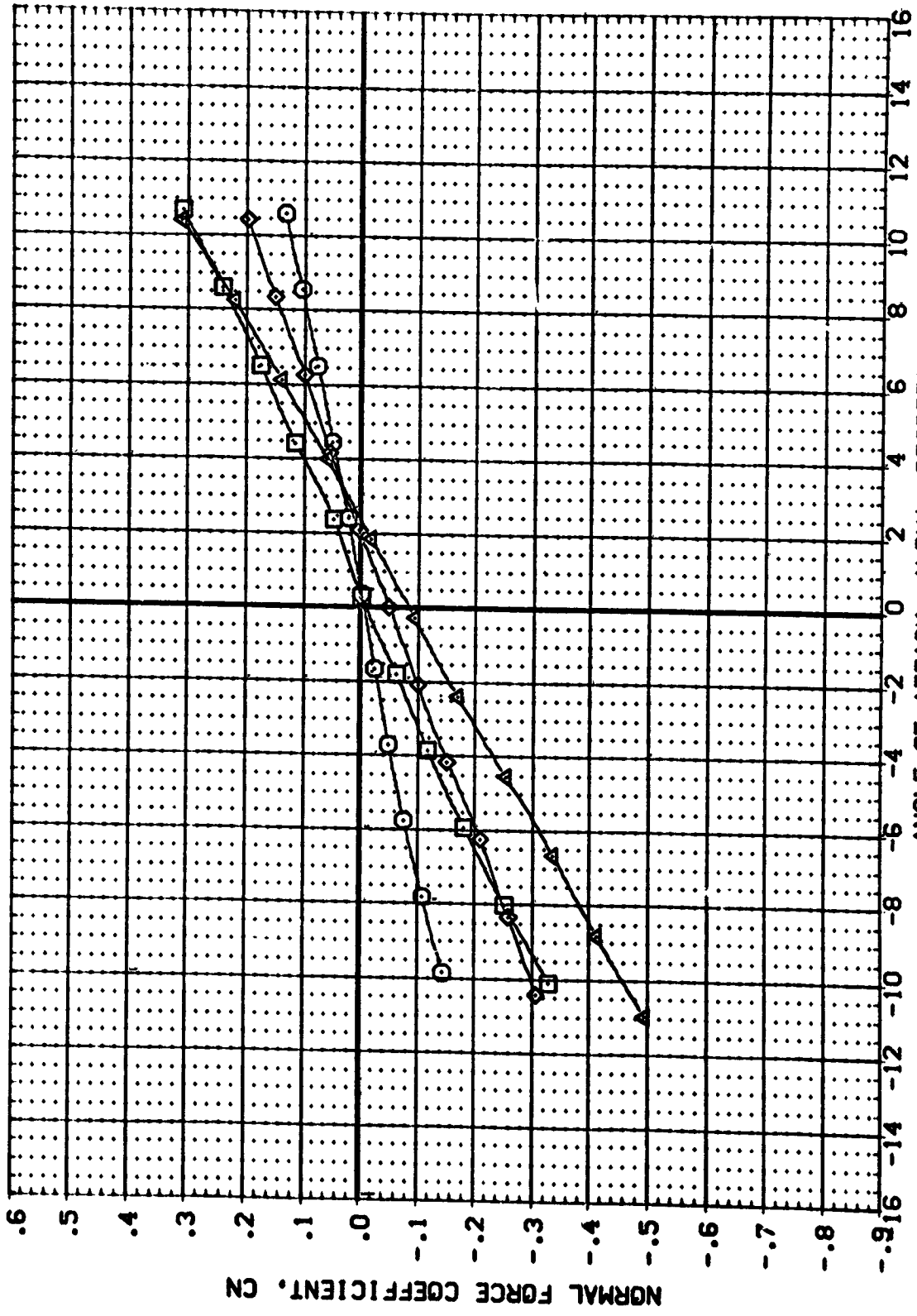
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1 TIP1SIP2 TIP101 TIP1SIP201	BETA	RUDDER	REFERENCE INFORMATION
(C05002)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	SREF 2690.0000 SQ. FT.
(D05004)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	LREF 1290.3000 INCHES
(D05006)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	BREF 1290.3000 INCHES
(H05008)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	XMRP 976.0000 INCHES
					YMRP .0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP	BETA	RUDDER	REFERENCE INFORMATION
CO50021	LRC UPVT 1056/1073 1A42A/B	TIP1	5.000	.000	SREF 2690.0000 SO.FT.
UJ50041	LRC UPVT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	LREF 1290.3000 INCHES
UJ50051	LRC UPVT 1056/1073 1A42A/B	TIP101	5.000	.000	BREF 1290.3000 INCHES
UJ50058	LRC UPVT 1056/1073 1A42A/B	TIP1SIP201	5.000	.000	XMRP 976.0000 INCHES
					YMRP 400.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

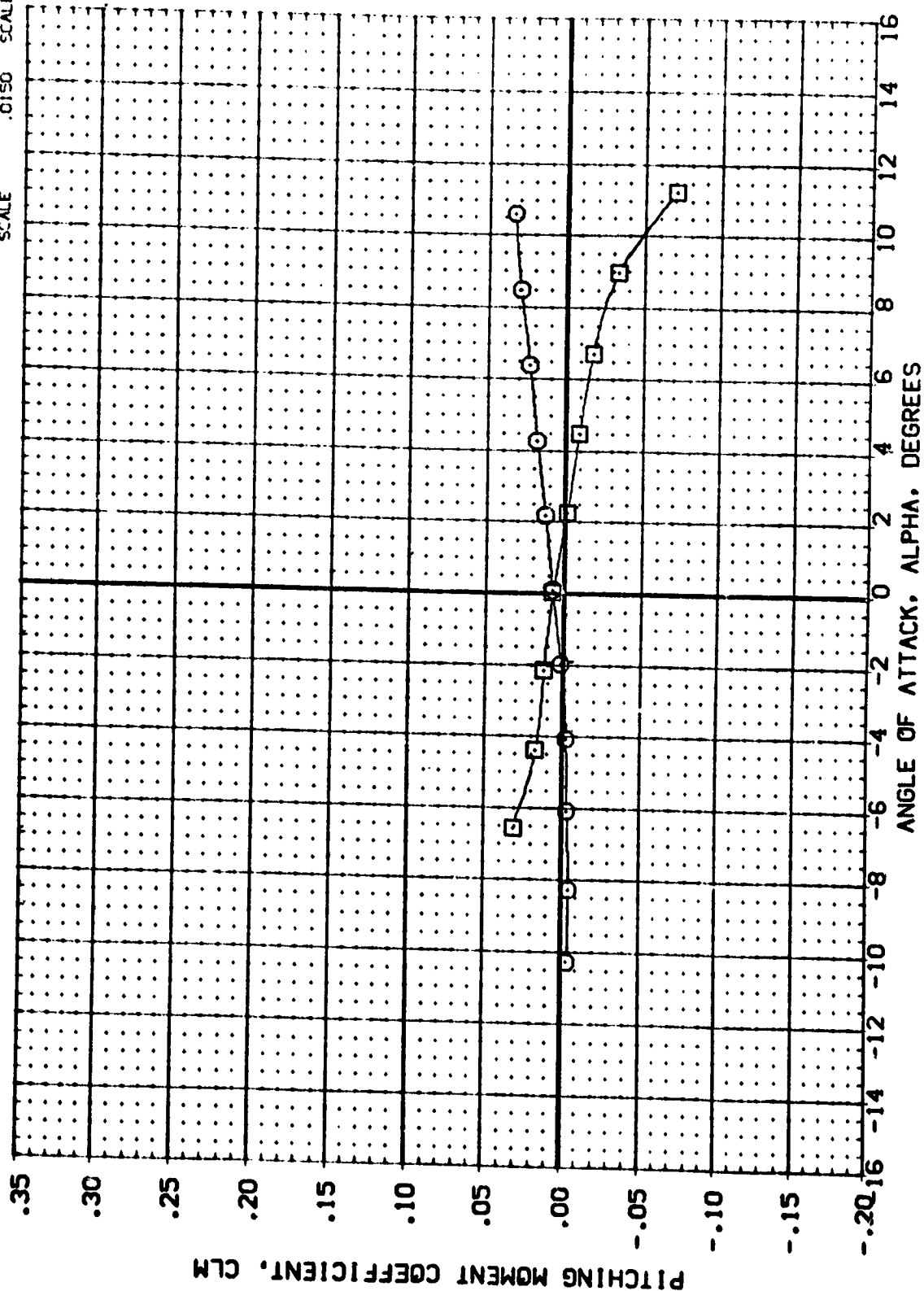
(G)MACH = 4.63

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C06002) LRC UPVT 1056/1073 1A42A/B
 (D06004) LRC UPVT 1056/1073 1A42A/B
 (D06006) DATA NOT AVAILABLE
 (H06008) DATA NOT AVAILABLE

TIP
 TIP1SIP2

BETA R.ODDER
 5.000 .000
 5.000 .000
 5.000 .000

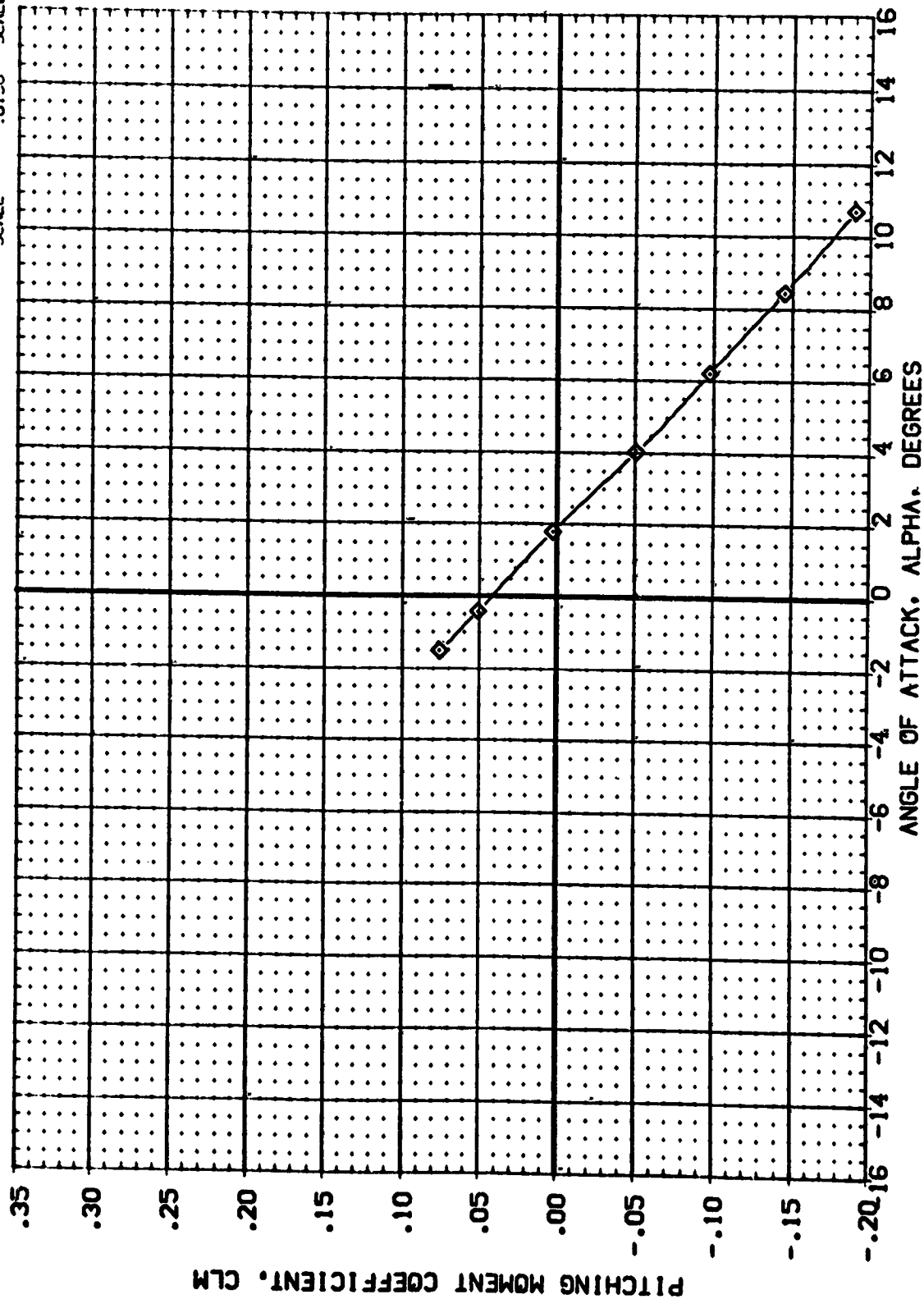
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 1.60

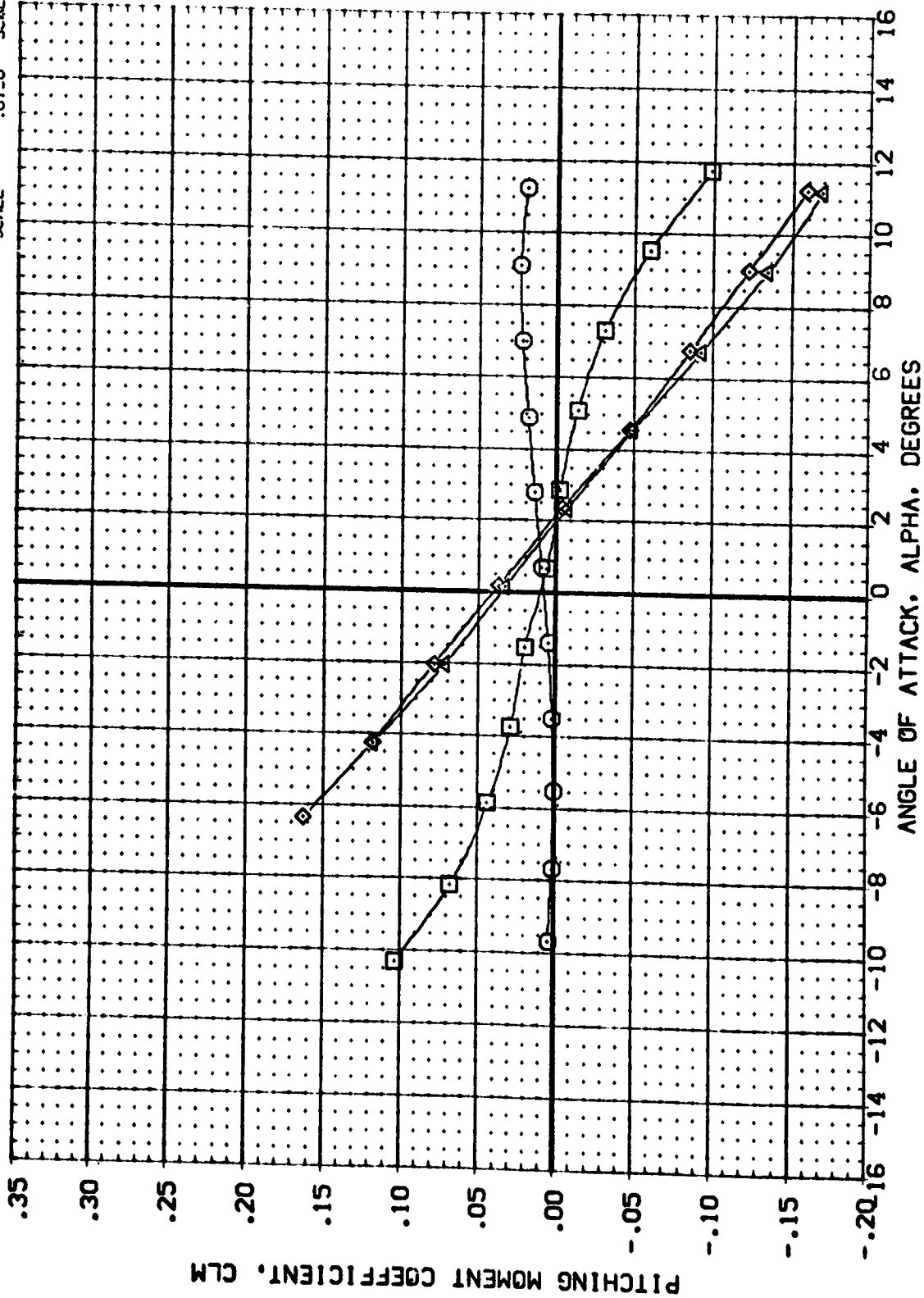
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(C06002)	DATA NOT AVAILABLE	9.000	.000	SREF 2690.0000 SQ.FT.
(D26004)	DATA NOT AVAILABLE	5.000	.000	LREF 1290.3000 INCHES
(D06006)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	BREF 1290.3000 INCHES
(M06008)	DATA NOT AVAILABLE	5.000	.000	XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 1.70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	TIP2	TIP101	TIP102	BETA	RUDDER	REFERENCE INFORMATION
(C05002)	LRC UPVT 1056/1073 IA42A/B					5.000	.000	SREF 2690.0000 50. FT.
(D05004)	LRC UPVT 1056/1073 IA42A/B					5.000	.000	LREF 1290.3000 INCHES
(D05006)	LRC UPVT 1056/1073 IA42A/B					5.000	.000	BREF 1290.3000 INCHES
(H05008)	LRC UPVT 1056/1073 IA42A/B					5.000	.000	XMRP 976.0000 INCHES
								YMRP 400.0000 INCHES
								ZMRP 400.0000 INCHES
								SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.00

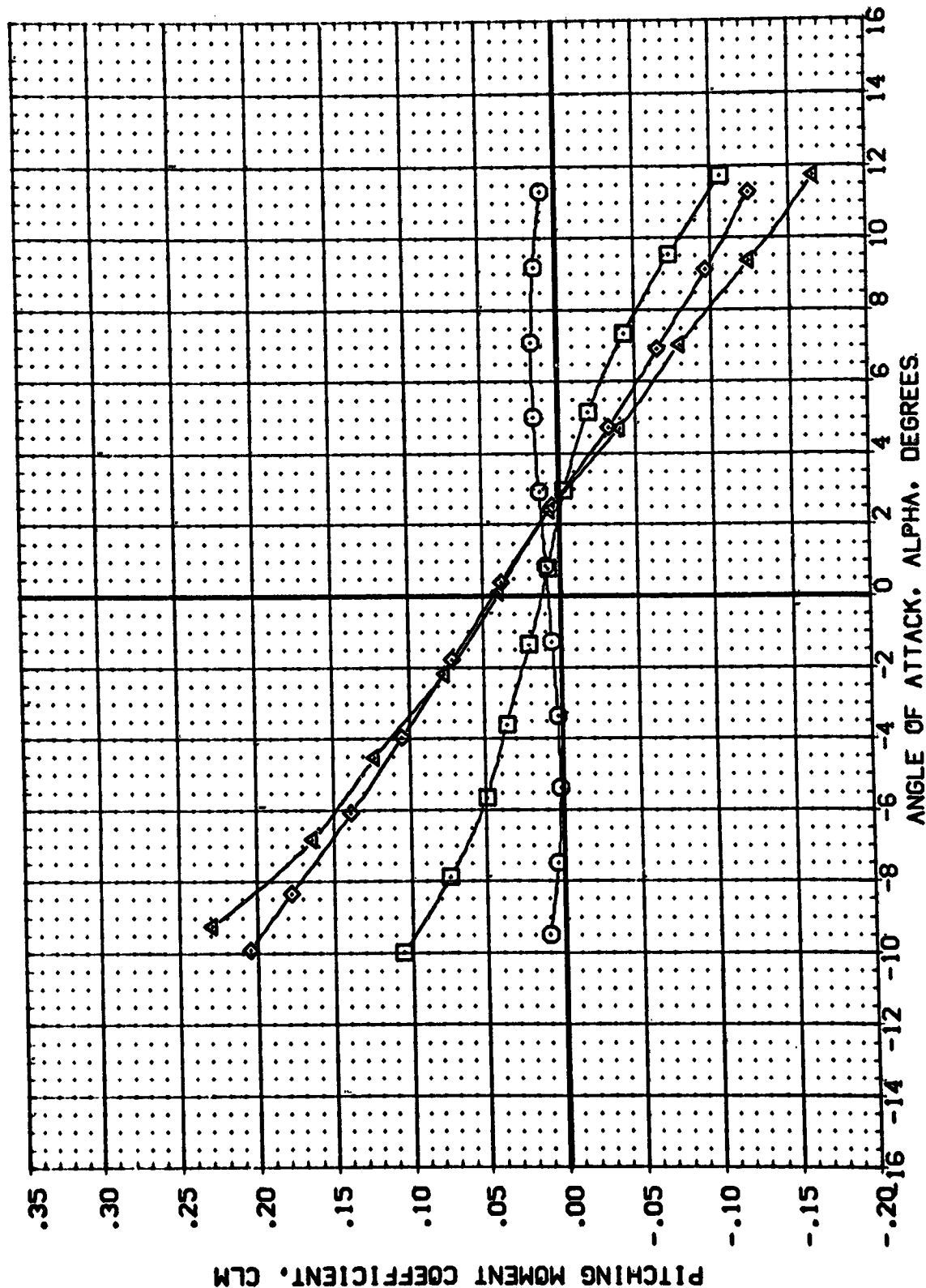
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000
 5.000 .000

TIP1
 TIP1SIP2
 TIP101
 TIP1SIP201

CONFIGURATION DESCRIPTION
 LRC LPVT 1056/1073 1A42A/B
 LRC LPVT 1056/1073 1A42A/B
 LRC LPVT 1056/1073 1A42A/B
 LRC LPVT 1056/1073 1A42A/B

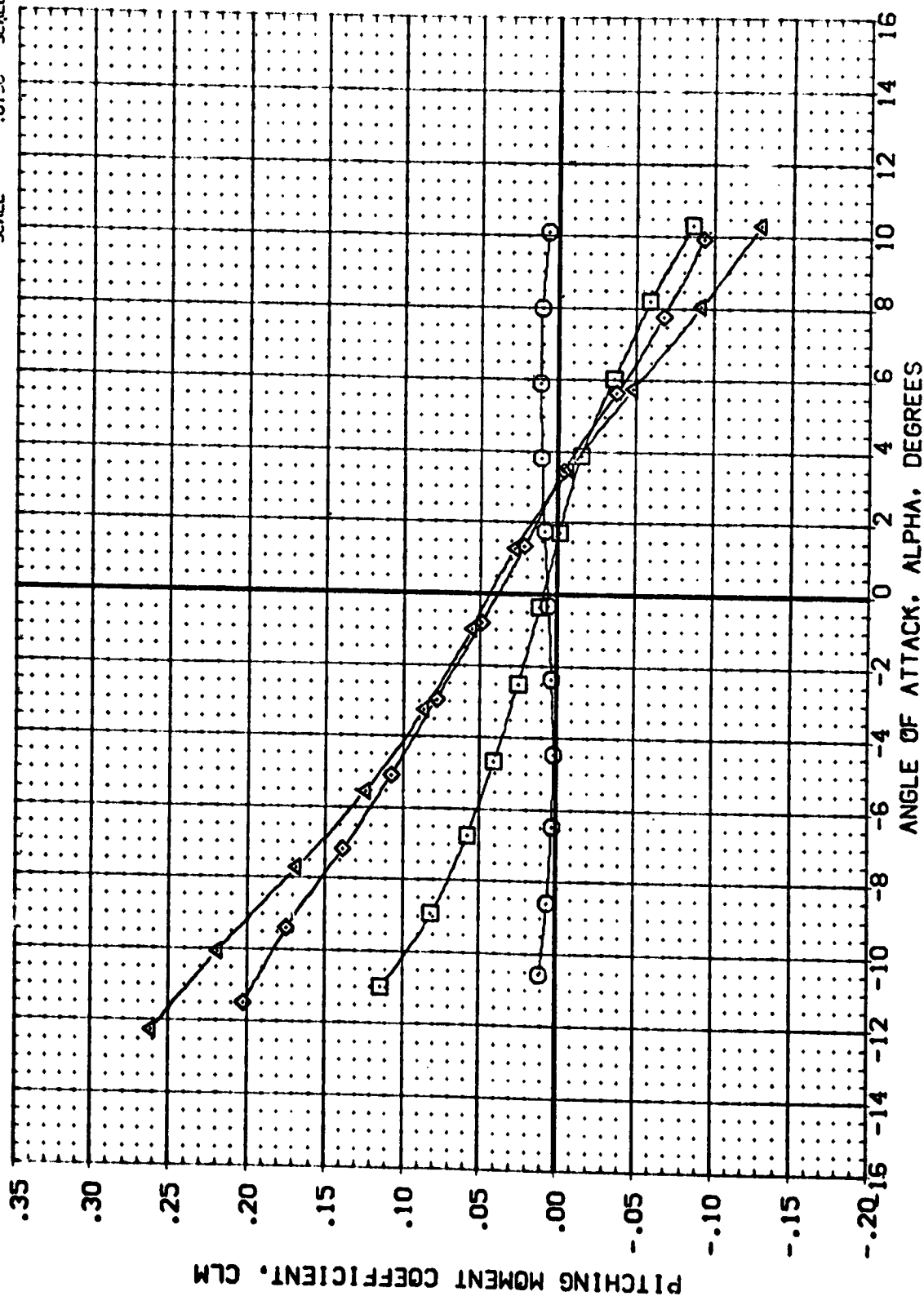
DATA SET SYMBOL
 (C06002)
 (D06004)
 (D06006)
 (M06008)



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP	BETA	RLIDER	REFERENCE INFORMATION
(C06002)	LRC UPNT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	SREF 2690.0000 SQ.FT.
(D06004)	LRC UPNT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	LREF 1290.3000 INCHES
(E06006)	LRC UPNT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	BREF 1290.3000 INCHES
(M06008)	LRC UPNT 1056/1073 1A42A/B	TIP1SIP201	5.000	.000	XMRP 976.0000 INCHES
					YMRP 400.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 2.86

REFERENCE INFORMATION

SREF	2690.0000	sq.ft.
LREF	1290.3000	inches
BREF	1290.3000	inches
XRRP	976.0000	inches
YRRP	.0000	inches
ZRRP	400.0000	inches
SCALE	.0150	SCALE

BETA

5.000	.000
5.000	.000
5.000	.000
5.000	.000

RUDDER

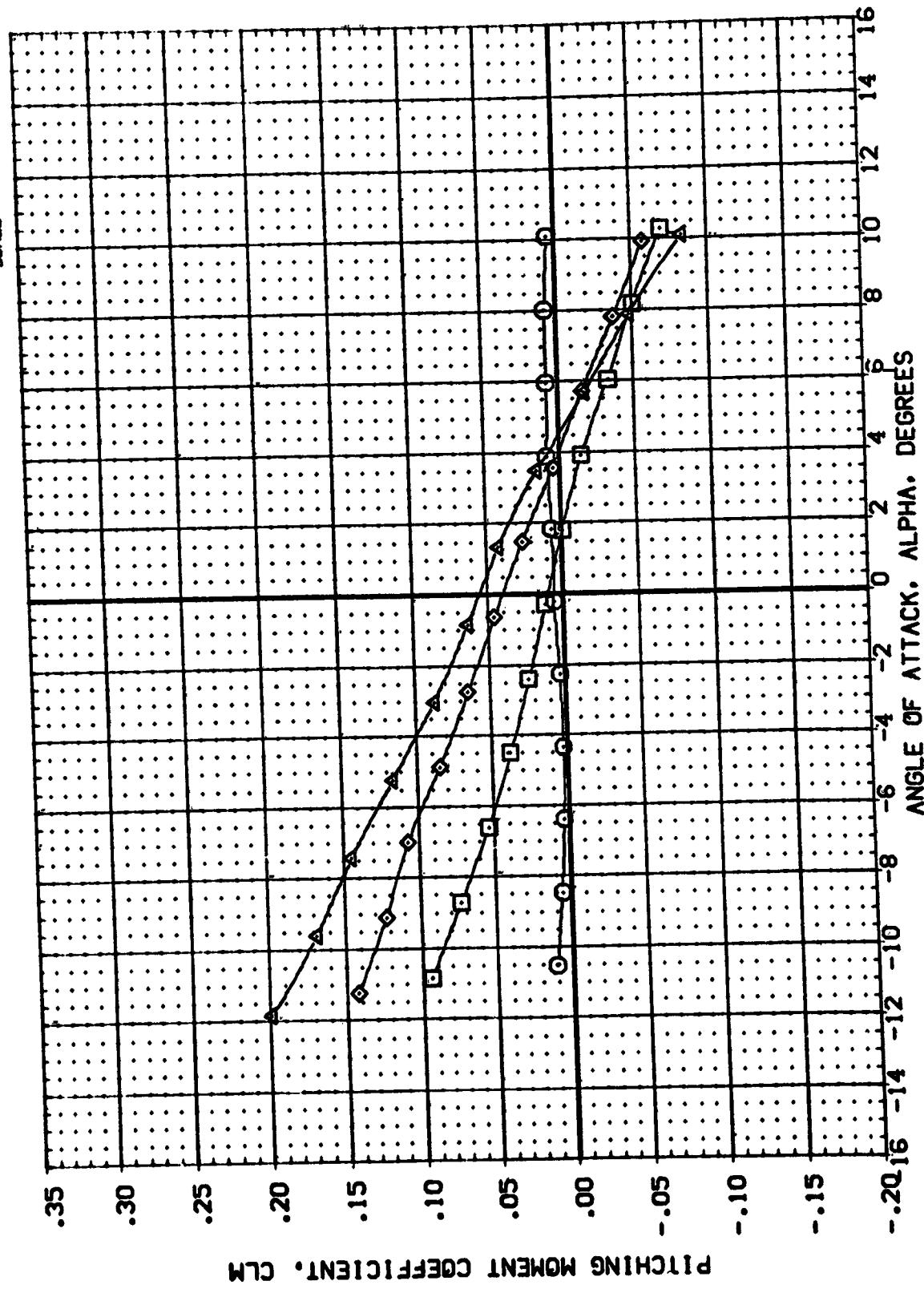
TIP1
TIP1SIP2
TIP101
TIP1SIP201

CONFIGURATION DESCRIPTION

LRC LPVT	1056/1073	IA42A/B
LRC LPVT	1056/1073	IA42A/B
LRC LPVT	1056/1073	IA42A/B
LRC LPVT	1056/1073	IA42A/B

DATA SET SYMBOL

(C06002)	□
(D06004)	◇
(D06006)	△
(H06008)	○



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 3.90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(C06002)	RC UPVT 1056/1073 1A42A/B
(D06004)	LRC UPVT 1056/1073 1A42A/B
(D06005)	LRC UPVT 1056/1073 1A42A/B
(H06008)	LRC UPVT 1056/1073 1A42A/B

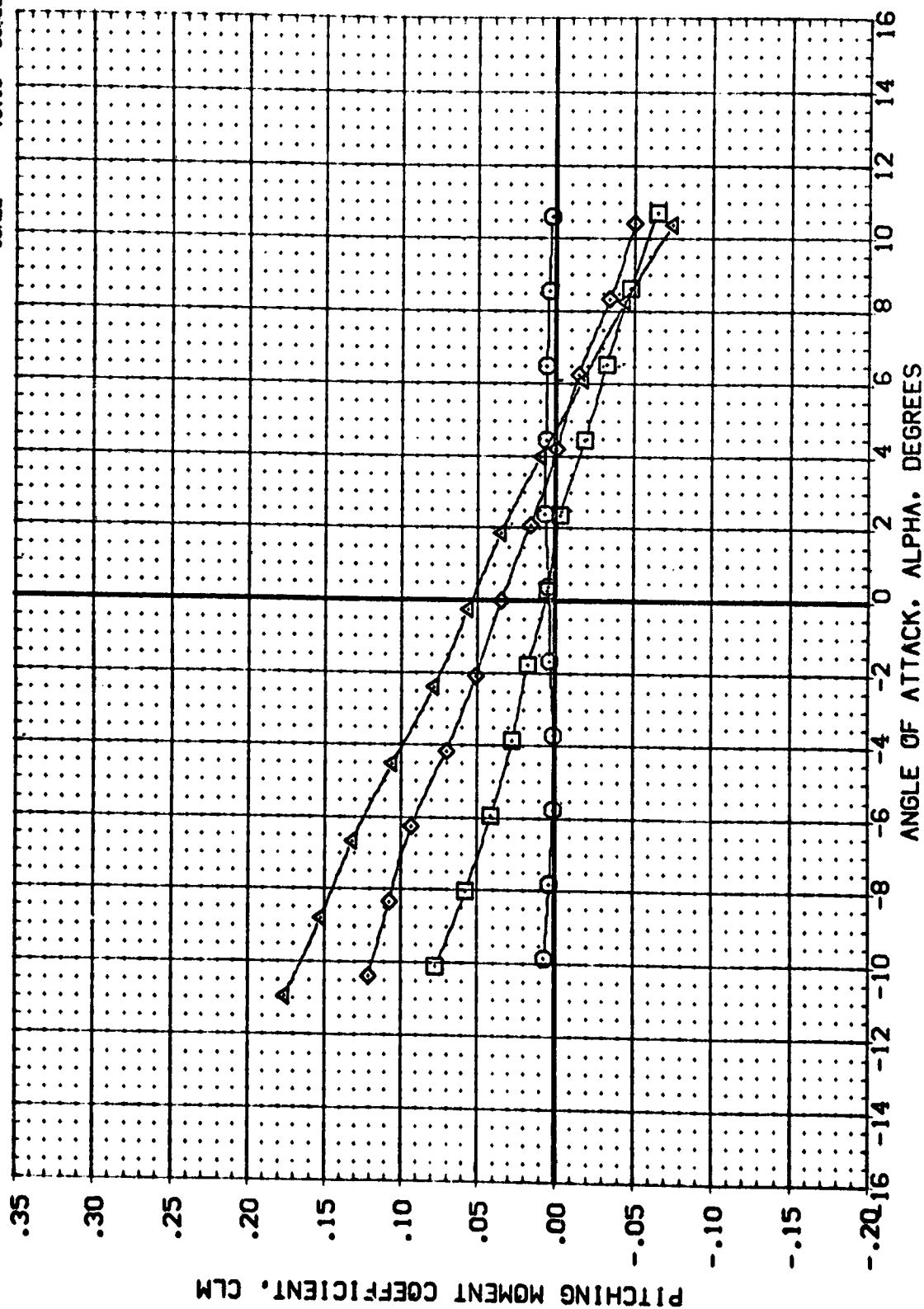
TIP1
TIP1SIP2
TIP101
TIP1SIP201

BETA RUDDER

5.000	.000
5.000	.000
5.000	.000

REFERENCE INFORMATION

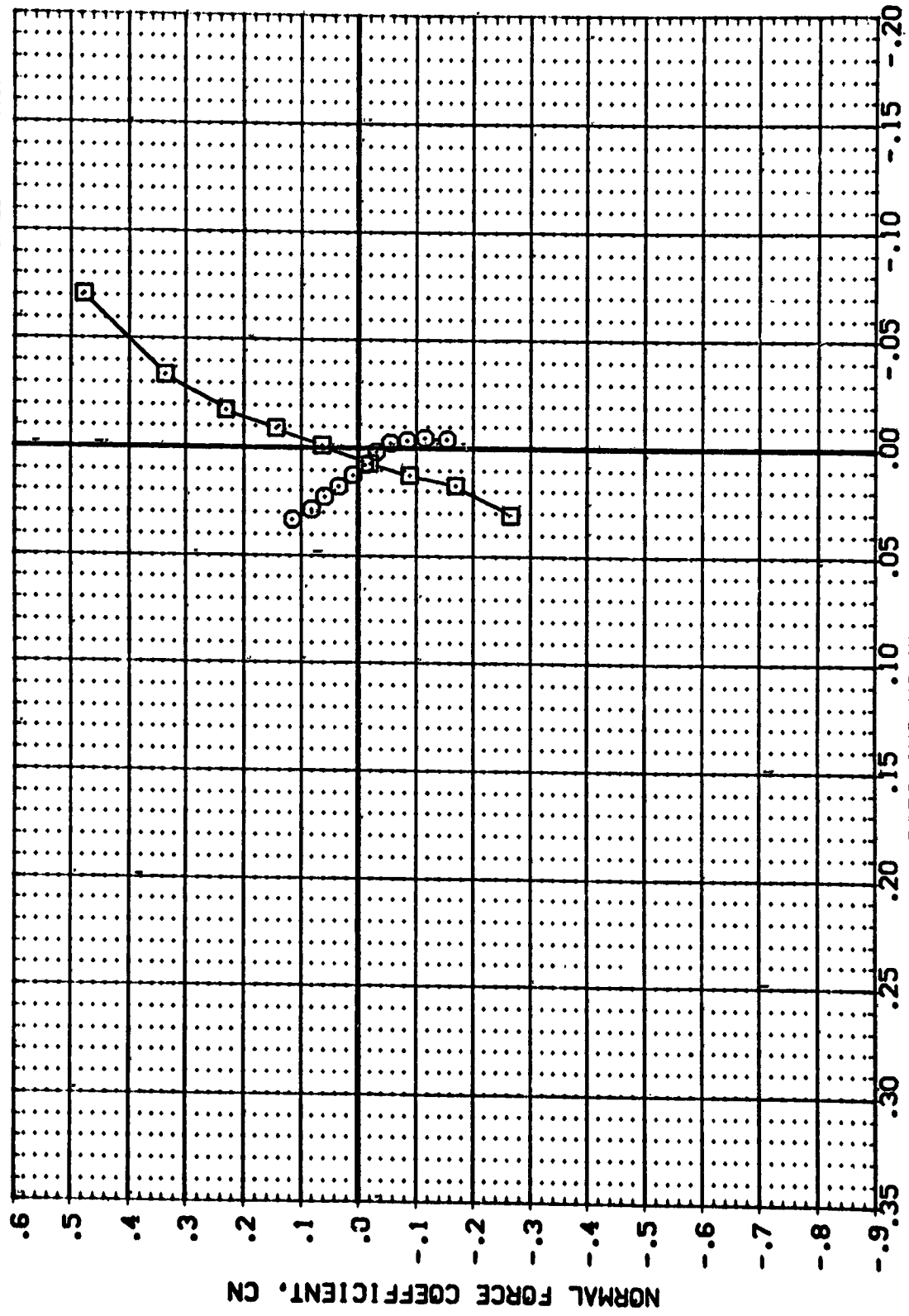
SREF	2690.0000	SO.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	INCHES
YMRP	.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	.0150	SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(G)MACH = 4.63

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP	BETA	RUDDER	REFERENCE INFORMATION
(C05002)	LRC UPVT 1055/1073 1A42A/B	TIP1SIP2	5.000	.000	SREF 2690.0000 50. FT.
(D05004)	LRC UPVT 1055/1073 1A42A/B		5.000	.000	LREF 1290.3000 INCHES
(E05006)	DATA NOT AVAILABLE		5.000	.000	BREF 1290.3000 INCHES
(H05008)	DATA NOT AVAILABLE		5.000	.000	XMRP .0000 INCHES
					YMRP .0000 INCHES
					ZMRP .0000 INCHES
					SCALE .0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION TIP101

(D06002) DATA NOT AVAILABLE

(D06004) DATA NOT AVAILABLE

(D06006) LRC UPVT 1056/1073 1A2A/B

(D06008) DATA NOT AVAILABLE

BETA RUDDER

5.000 .000

5.000 .000

5.000 .000

5.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 1290.3000 INCHES

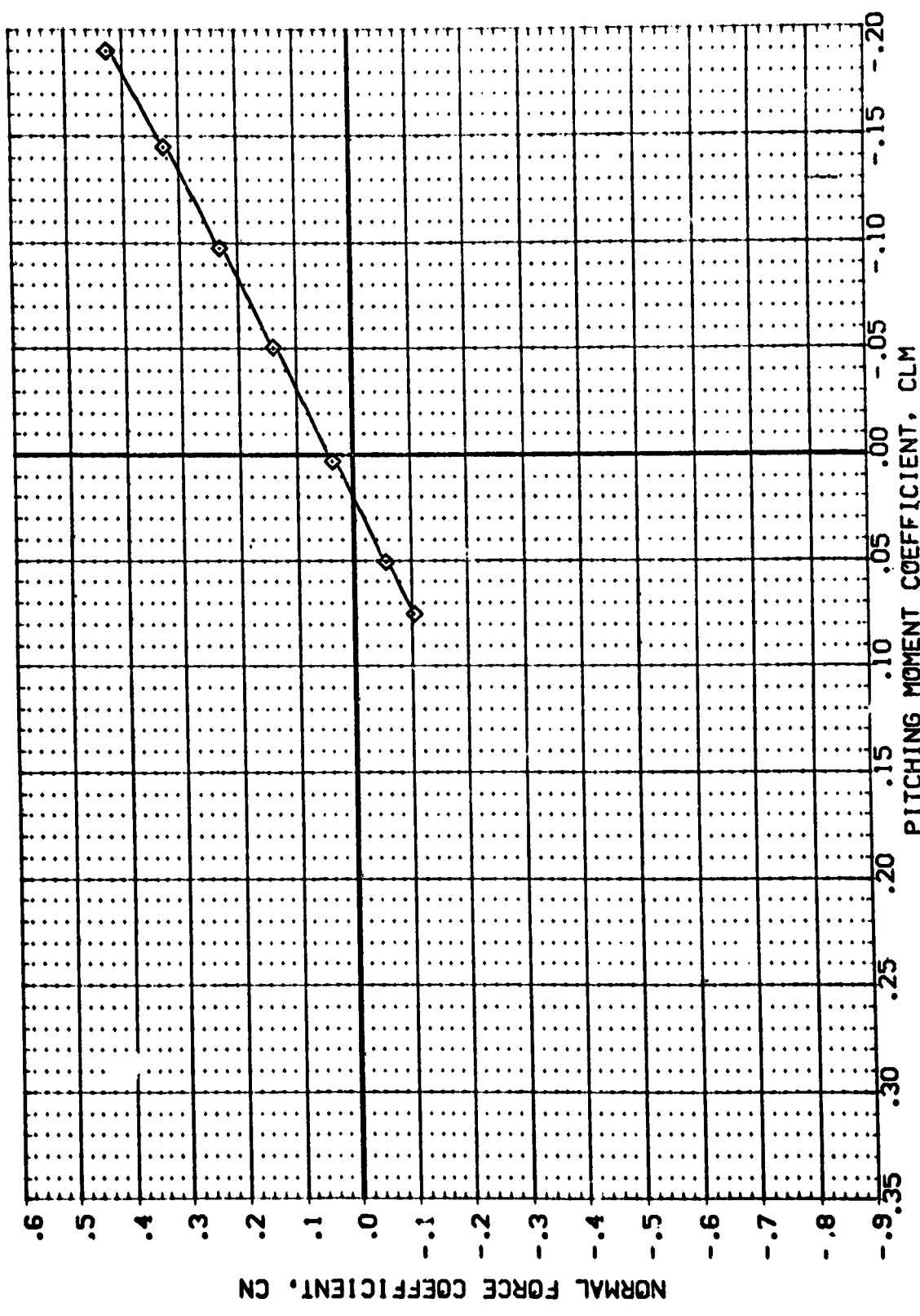
BREF 1290.3000 INCHES

XMRP 976.0000 INCHES

YMRP .0000 INCHES

ZMRP 400.0000 INCHES

SCALE .0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

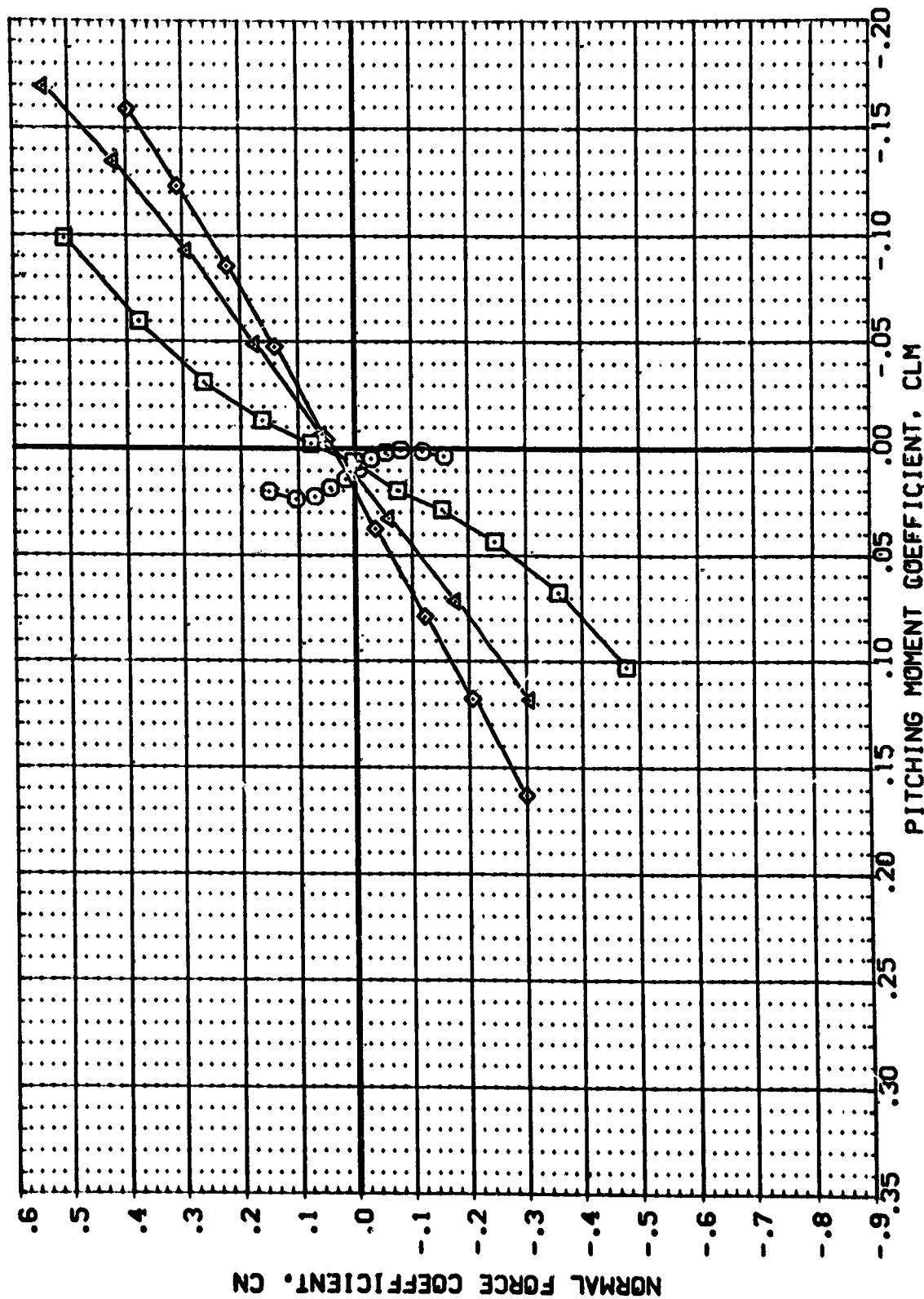
(B)MACH = 1.70

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000
 5.000 .000

TIP1
 TIP1SIP2
 TIP1Q1
 TIP1SIP201

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C06002) LRC UPVT 1056/1073 1A42A/B
 (C06004) LRC UPVT 1056/1073 1A42A/B
 (C06006) LRC UPVT 1056/1073 1A42A/B
 (C06008) LRC UPVT 1056/1073 1A42A/B



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

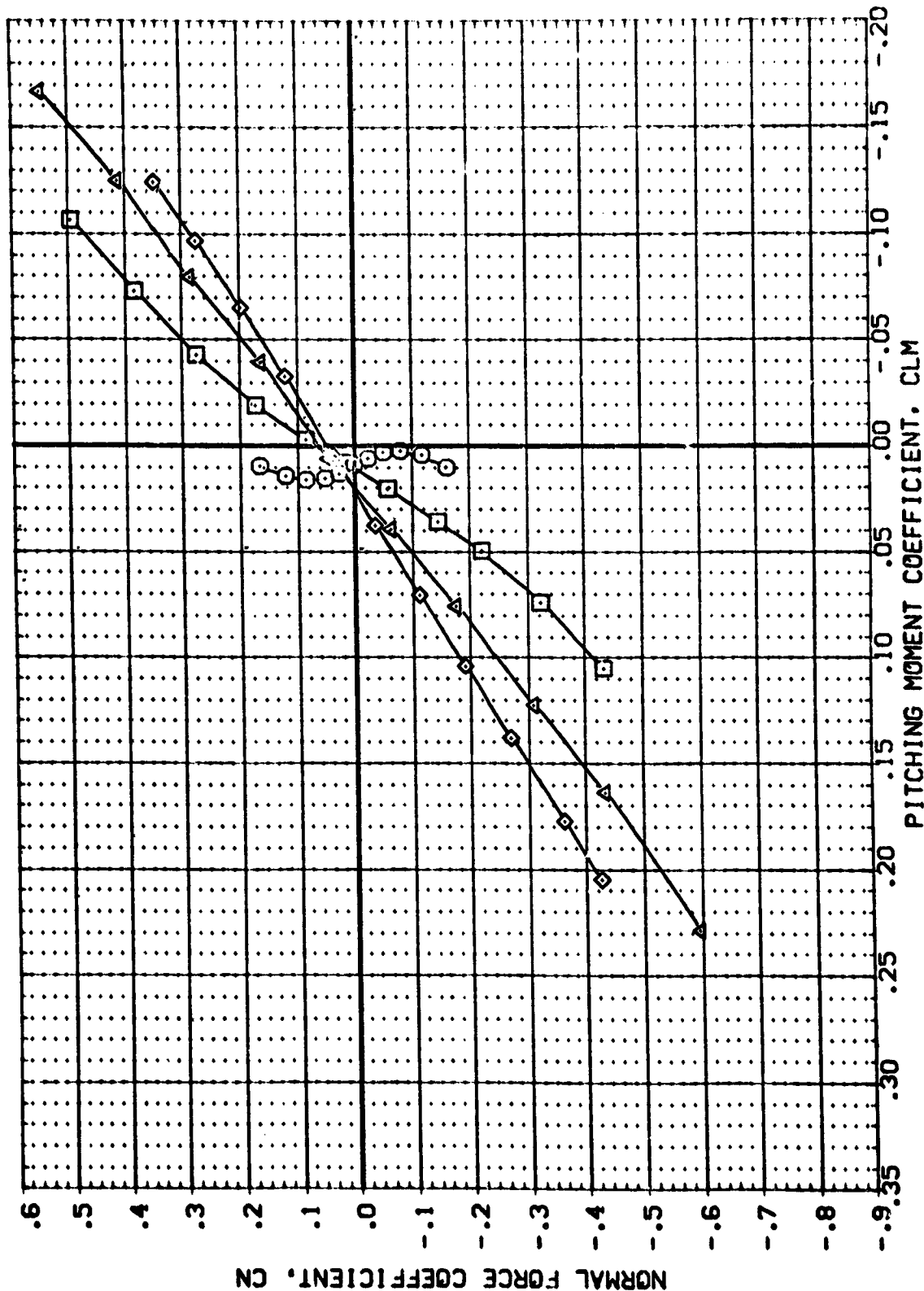
(C)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C06002) LRC UPVT 1056/1073 1A42A/B
 (D06004) LRC UPVT 1056/1073 1A42A/B
 (D06006) LRC UPVT 1056/1073 1A42A/B
 (H06008) LRC UPVT 1056/1073 1A42A/B

TIP1
 TIP1SIP2
 TIP101
 TIP1SIP201

BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000
 5.000 .000

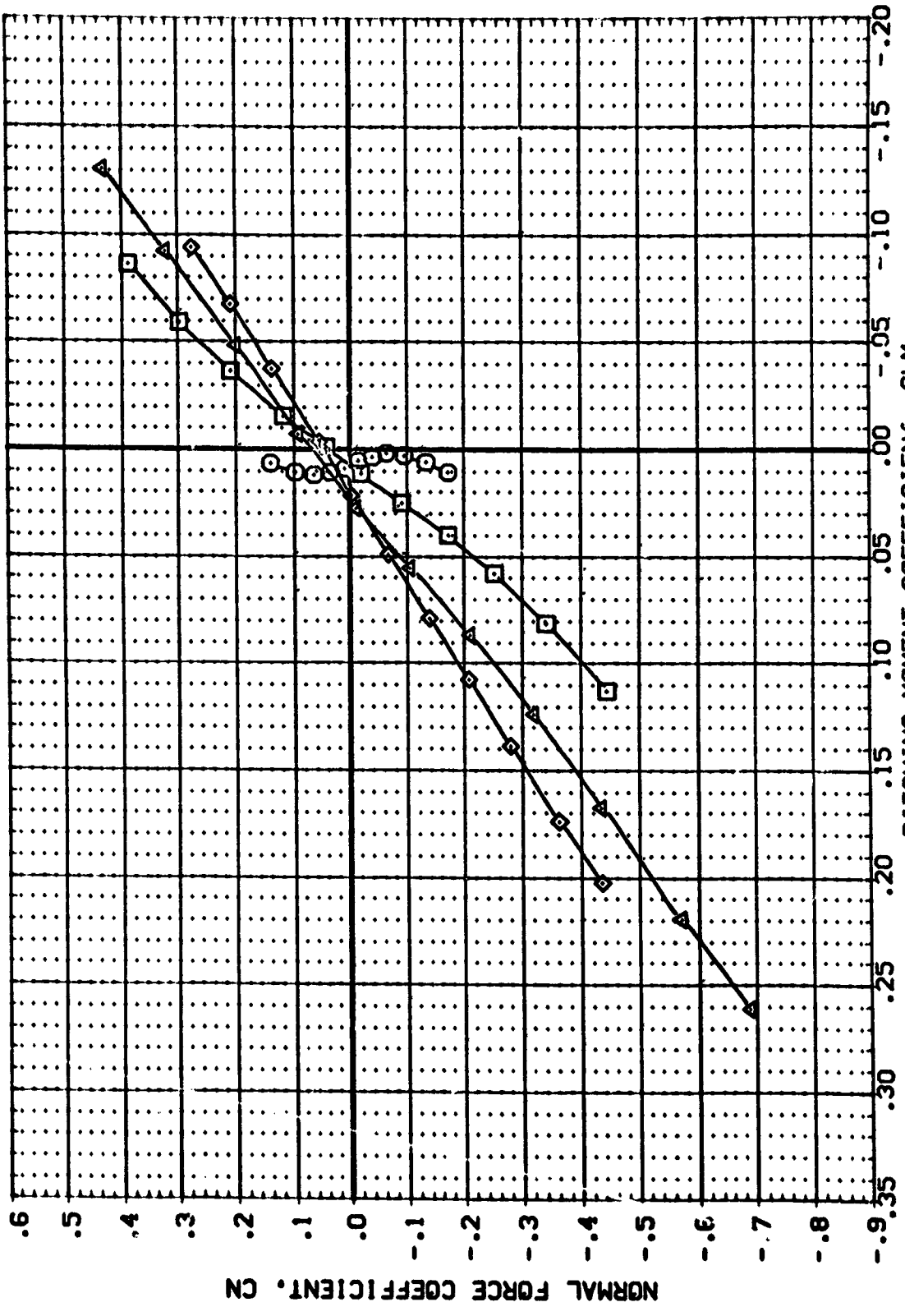
REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 INCHES



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 2.50

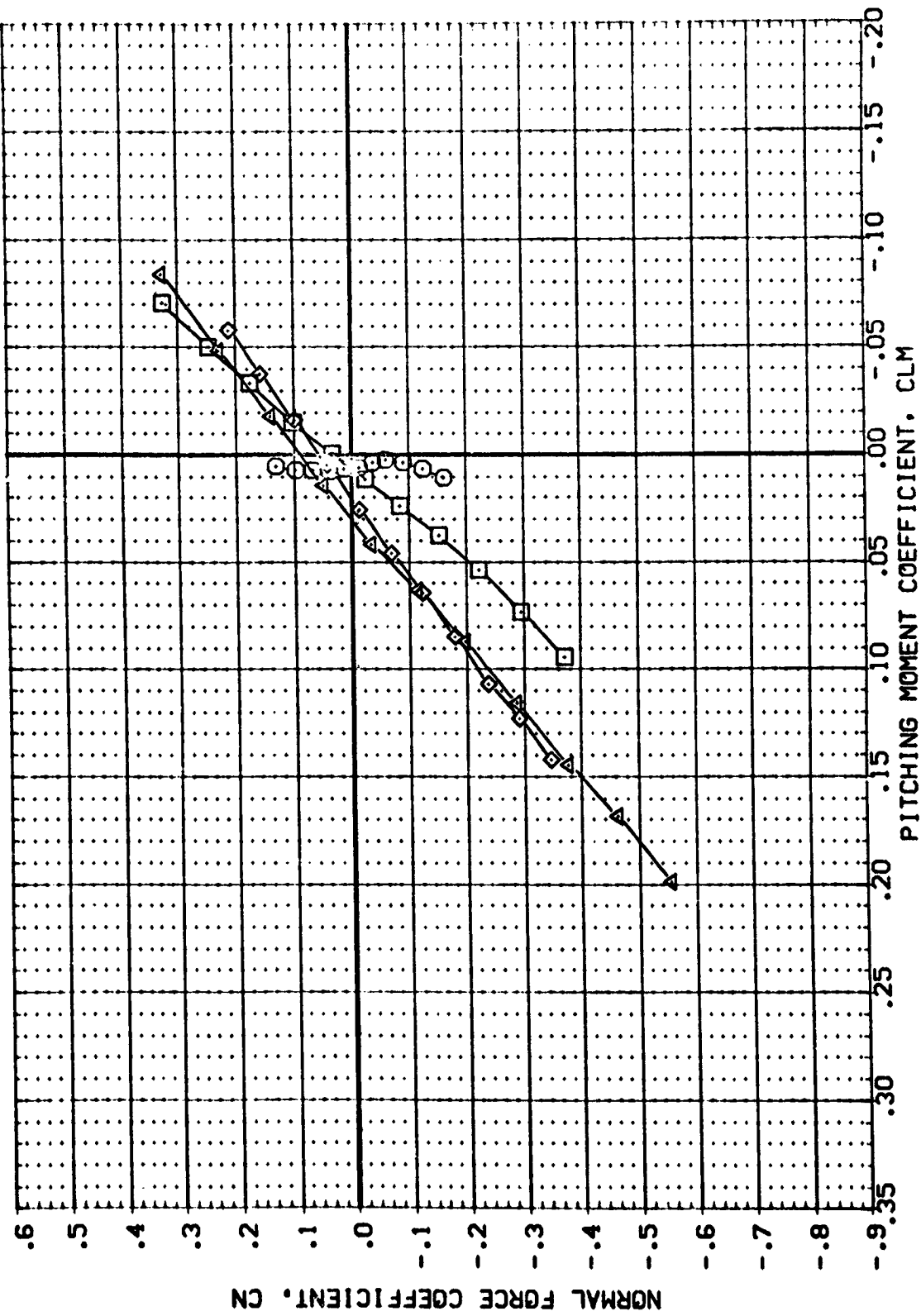
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP	BETA	RUDDER	REFERENCE INFORMATION
(C05002)	LRC LPVT 1056/1073 1A42A/B	TIP1	5.000	.000	SREF 2690.0000 SQ.FT.
(D05004)	LRC LPVT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	LREF 1290.3000 INCHES
(D06006)	LRC LPVT 1056/1073 1A42A/B	TIP101	5.000	.000	BREF 1290.3000 INCHES
(H06008)	LRC LPVT 1056/1073 1A42A/B	TIP1SIP201	5.000	.000	XRRP 976.0000 INCHES
					YRRP 400.0000 INCHES
					ZRRP 400.0000 INCHES
					SCALE .0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 2.86

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA		RUDDER	REFERENCE INFORMATION	
(C06002)	□	LRC LPVT 1056/1073 1A42A/B	5.000	.000		SREF	2690.0000 SQ. FT.
(C06004)	×	LRC LPVT 1056/1073 1A42A/B	5.000	.000		LREF	1290.3000 INCHES
(C06006)	×	LRC LPVT 1056/1073 1A42A/B	5.000	.000		BREF	1290.3000 INCHES
(C06008)	×	LRC LPVT 1056/1073 1A42A/B	5.000	.000		XPRP	976.0000 INCHES
						YPRP	.0000 INCHES
						ZPRP	400.0000 INCHES
						SCALE	.0150 SCALE



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

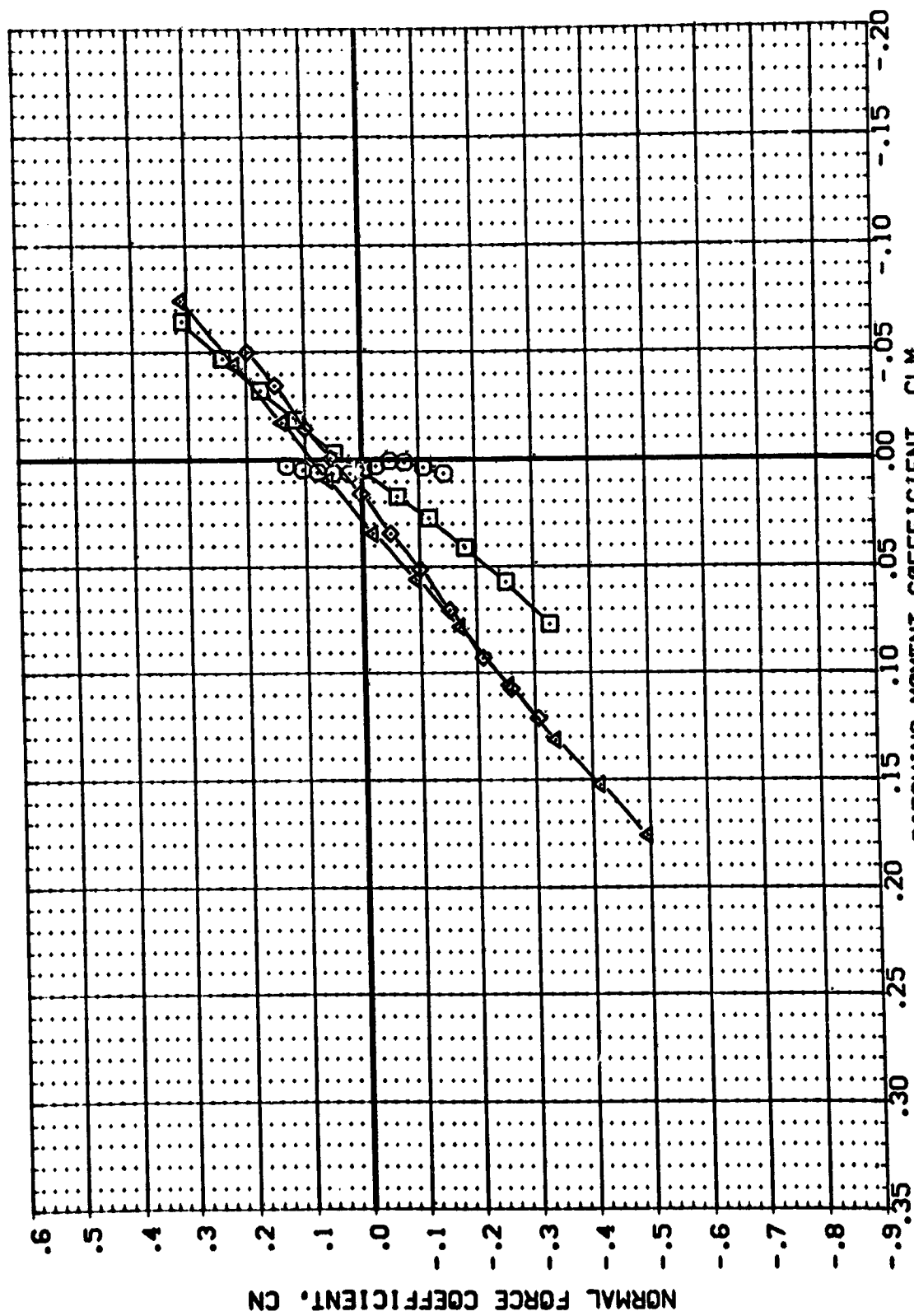
(F)MACH = 3.90

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000
 5.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C06002) LRC UPVT 1056/1073 1A42A/B
 (C06003) LRC UPVT 1056/1073 1A42A/B
 (C06004) LRC UPVT 1056/1073 1A42A/B
 (C06005) LRC UPVT 1056/1073 1A42A/B
 (C06006) LRC UPVT 1056/1073 1A42A/B
 (C06007) LRC UPVT 1056/1073 1A42A/B
 (C06008) LRC UPVT 1056/1073 1A42A/B

TIP1
 TIP1SIP2
 TIP1R1
 TIP1SIP201



CONFIGURATION BUILDUP-EFFECT ON LONGITUDINAL CHARACTERISTICS

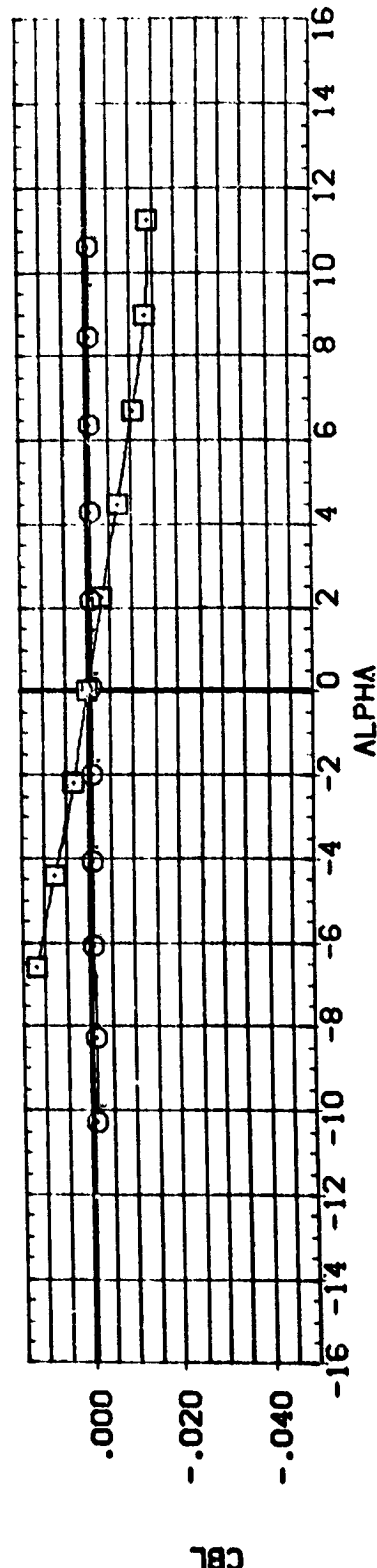
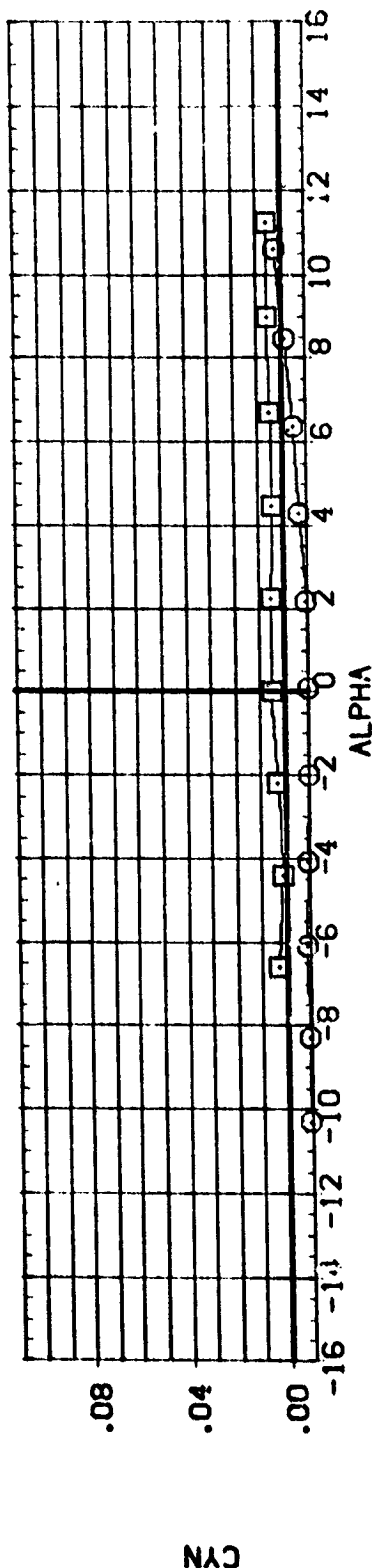
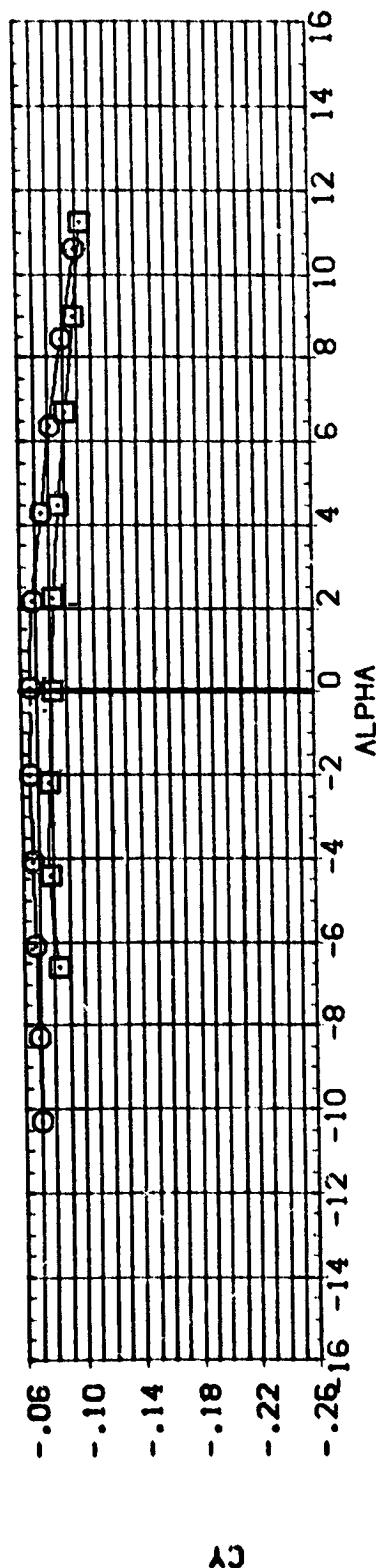
(G)MACH = 4.63

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R06002) LRC UPVT 1056/1073 1A42A/B
 (R06004) LRC UPVT 1056/1073 1A42A/B
 (R06006) DATA NOT AVAILABLE
 (R06008) DATA NOT AVAILABLE

TIPI
 TIPI5IP2

BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000
 5.000 .000

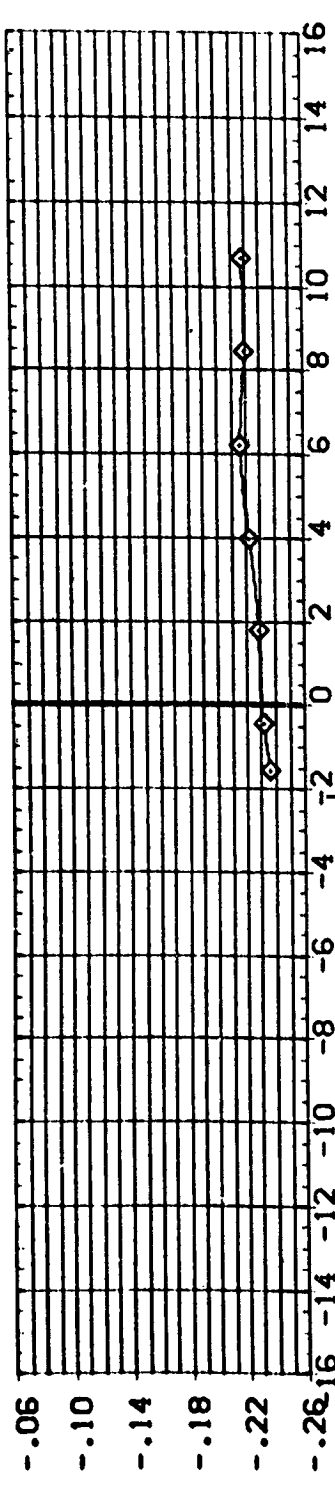
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



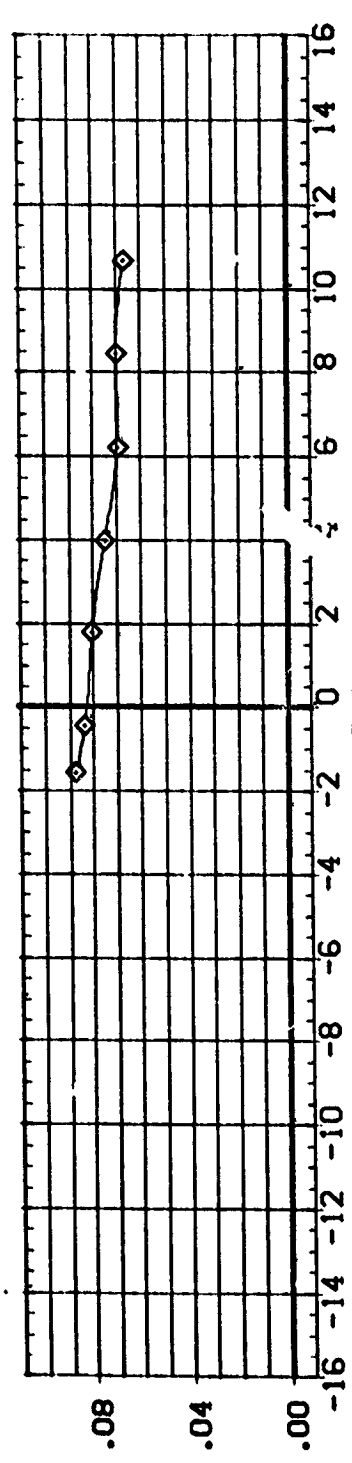
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 1.60

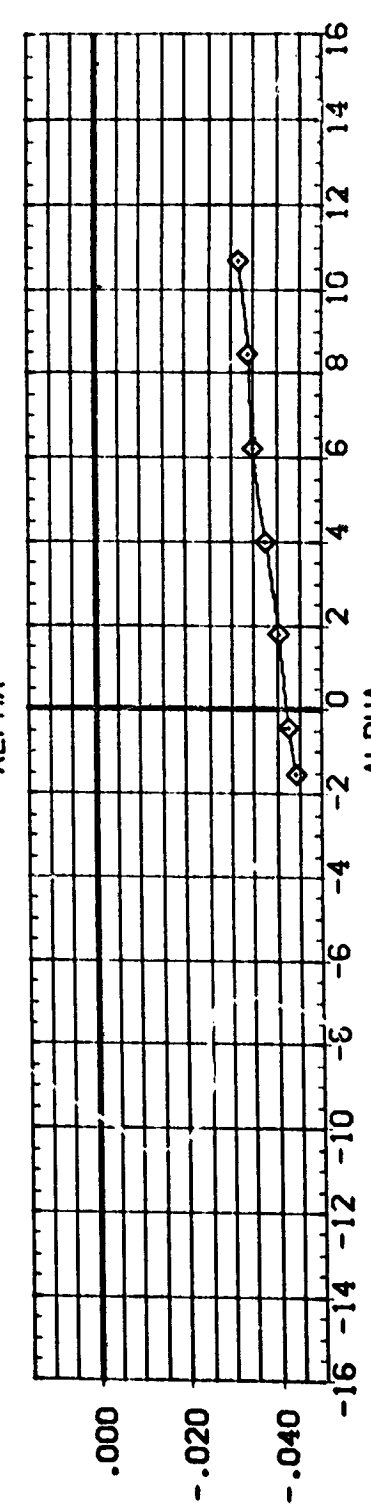
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
RG6002	DATA NOT AVAILABLE	5.000	.000	SREF 2690.0000 SQ. FT.
RG6004	DATA NOT AVAILABLE	5.000	.000	LREF 1290.3000 INCHES
RG6006	LRC JPT 1056/1073 1A42A/B TIP101	5.000	.000	BREF 1290.3000 INCHES
RG6008	DATA NOT AVAILABLE	5.000	.000	YMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



CY



CYN

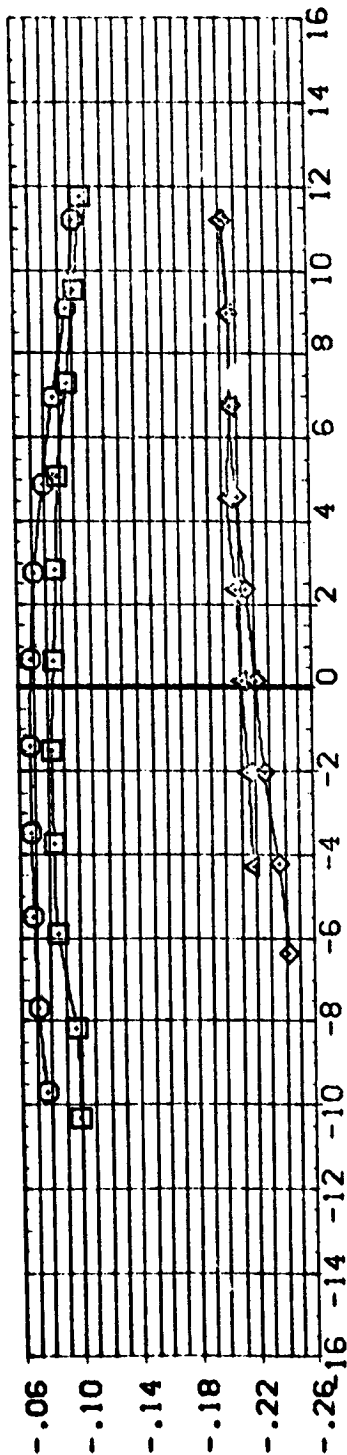


CBL

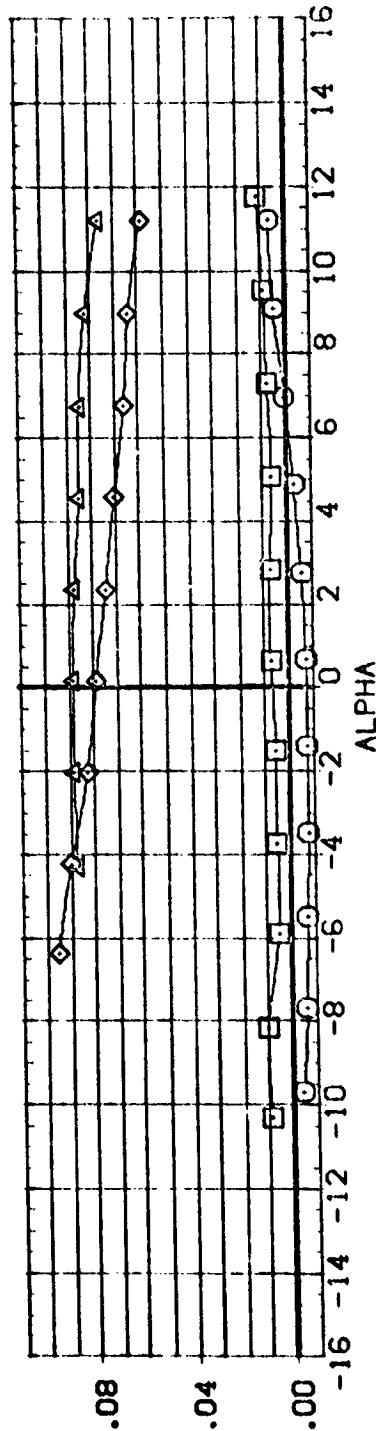
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

DATA SET SYMBOL:  REFERENCE INFORMATION: SO. FT. INCHES

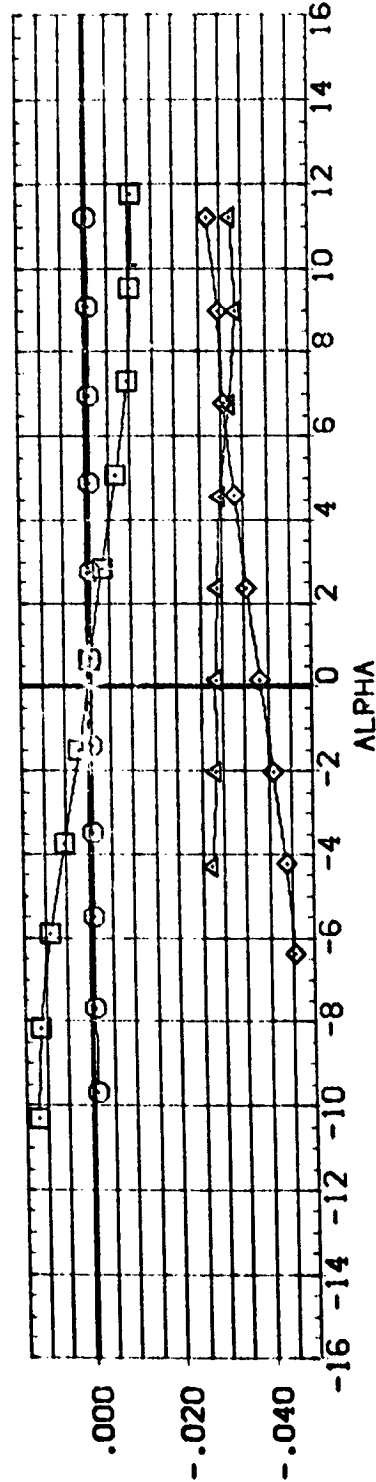
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
RO50021	LRC LPAT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000
RO50041	LRC LPAT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000
RO50061	LRC LPAT 1056/1073 1A42A/B	5.000	.000	BREF 1290.3000
RO50081	LRC LPAT 1056/1073 1A42A/B	5.000	.000	YMRP 976.0000
				ZMRP .0000
				SCALE 400.0000
				.0150



CY



CYN



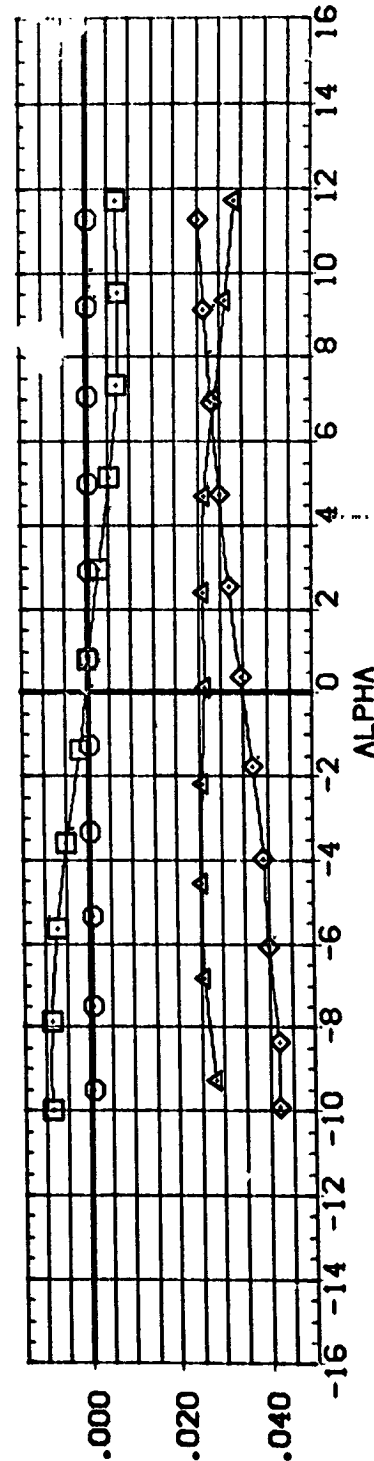
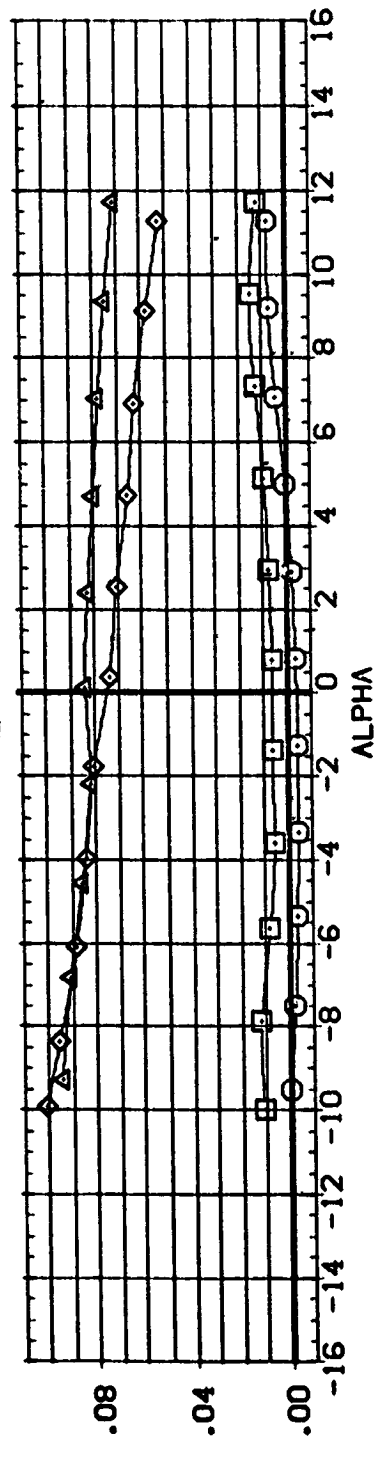
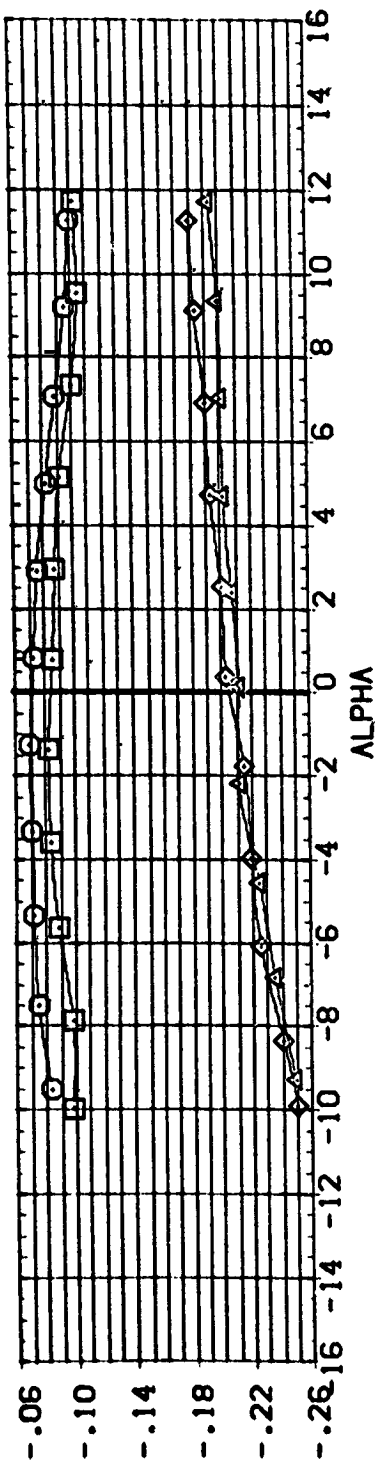
CBL

CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(C)MACH = 2.00



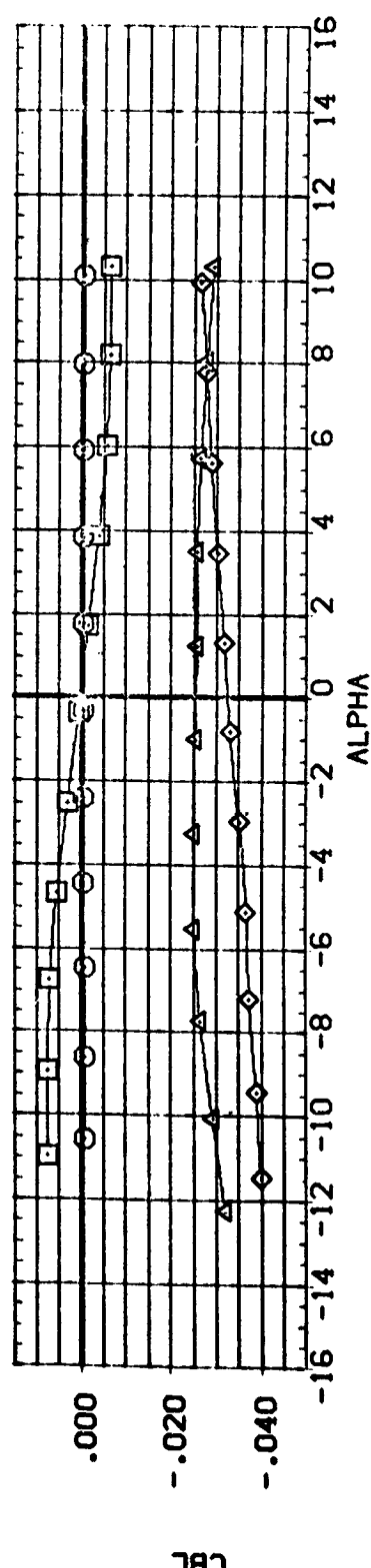
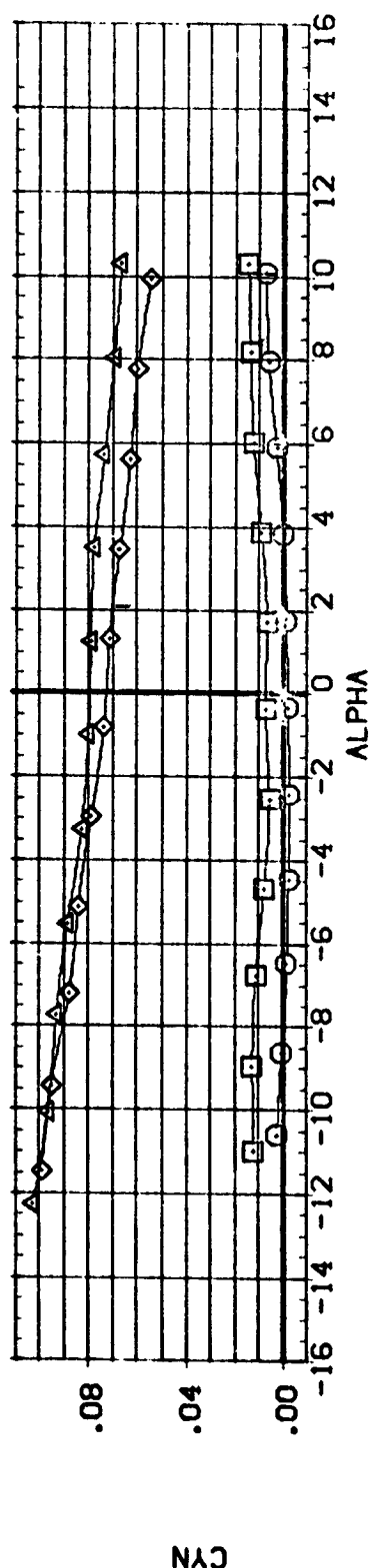
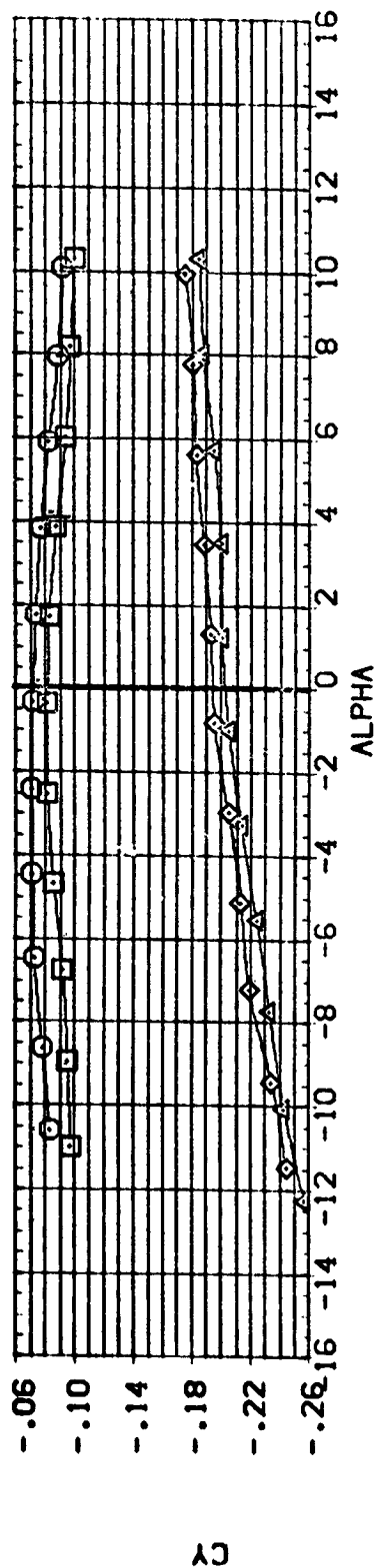
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP	BETA	RUDDER	REFERENCE INFORMATION
(R05002)	LRC UPNT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	SREF 2690.0000 SQ.FT.
(R05004)	LRC UPNT 1056/1073 1A42A/B	TIP101	5.000	.000	LREF 1290.3000 INCHES
(R05006)	LRC UPNT 1056/1073 1A42A/B	TIP1SIP201	5.000	.000	BREF 1290.3000 INCHES
(R05008)	LRC UPNT 1056/1073 1A42A/B				XMRP 976.0000 INCHES
					YMRP .0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(D)MACH = 2.50

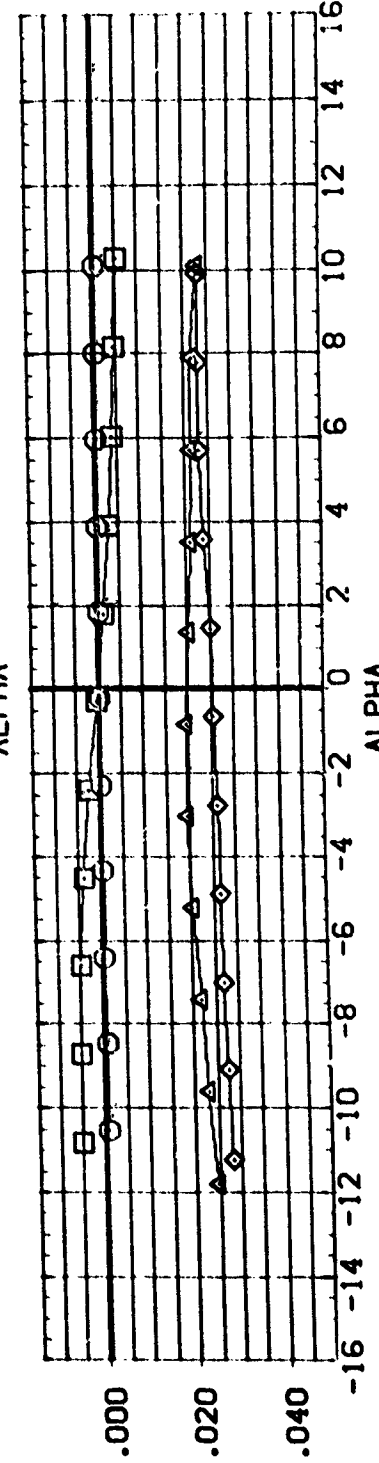
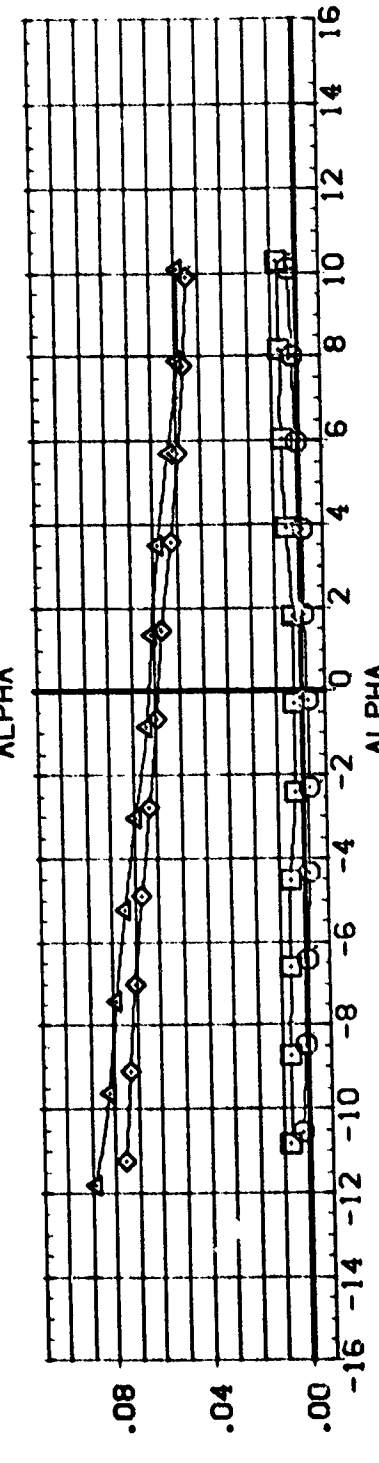
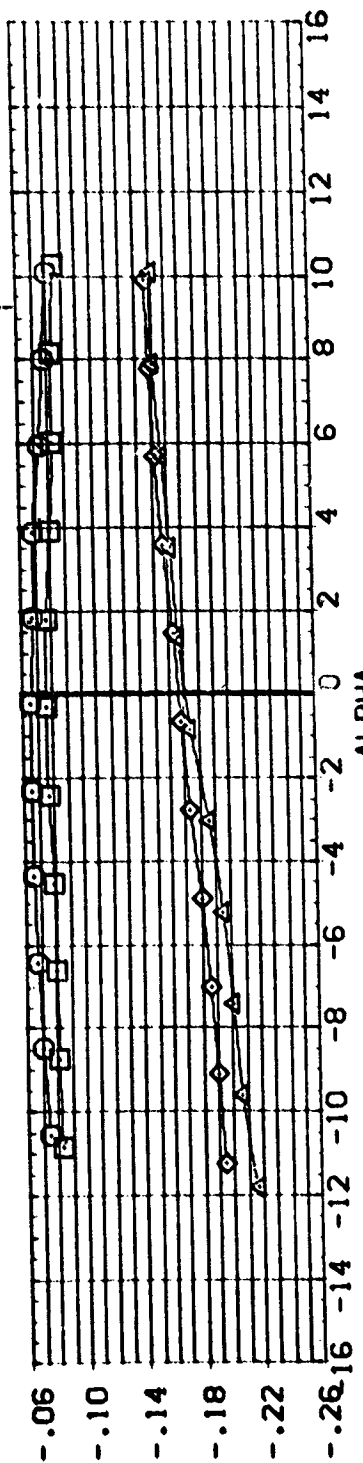
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		TIP		BETA		RUDDER		REFERENCE INFORMATION	
RO5002	Q	LRC	UPVT 1056/1073	1A42A/B	TIP1	5.000	.000	SREF	2690.0000	INCHES	SCALE
RO5004	Q	LRC	UPVT 1056/1073	1A42A/B	TIP1SIP2	5.000	.000	LREF	1290.3000	INCHES	
RO5006	Q	LRC	UPVT 1056/1073	1A42A/B	TIP101	5.000	.000	BREF	1290.3000	INCHES	
RO5008	Q	LRC	UPVT 1056/1073	1A42A/B	TIP1SIP201	5.000	.000	YMRP	976.0000	INCHES	
								ZMRP	400.0000	INCHES	
								SCALE	.0150	INCHES	



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(E)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	BETA	RUDDER	REFERENCE INFORMATION
(R06002)	LC UPV 1056/1073 [A42A/B	TIP1SIP2	5.000	.000	SREF 2690.0000 SQ.FT.
(R06004)	LC UPV 1056/1073 [A42A/B	TIP1SIP1	5.000	.000	LREF 1290.3000 INCHES
(R06006)	LC UPV 1056/1073 [A42A/B	TIP1SIP1	5.000	.000	BREF 1290.3000 INCHES
(R06008)	LC UPV 1056/1073 [A42A/B	TIP1SIP201	5.000	.000	XREF 976.0000 INCHES
					YREF 400.0000 INCHES
					ZREF .0150 INCHES
					SCALE



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

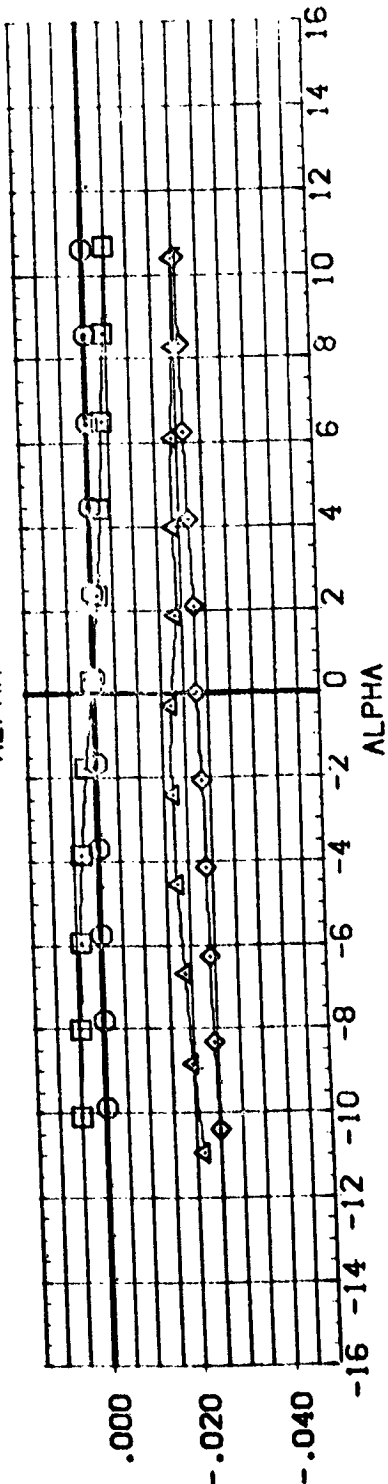
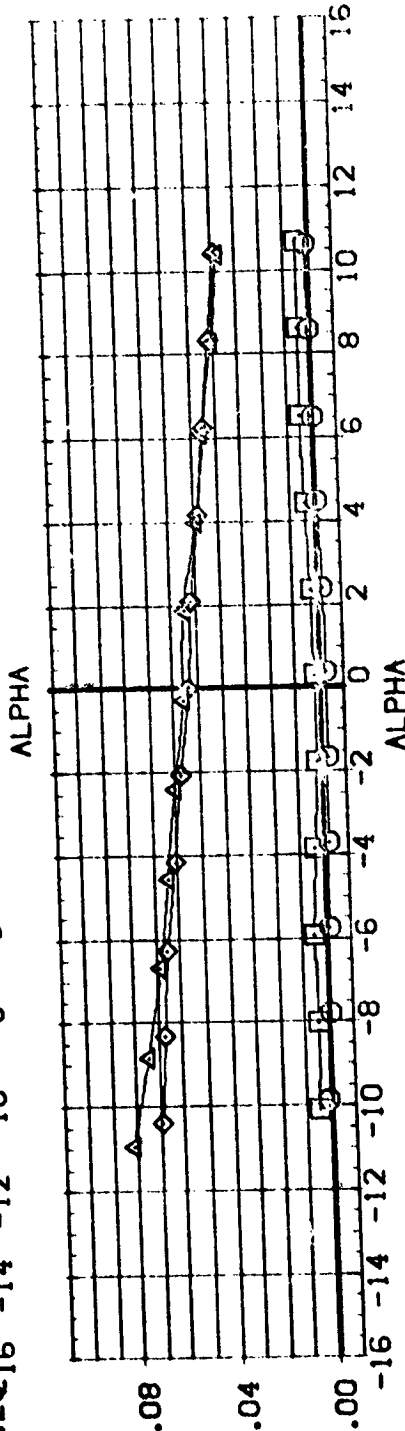
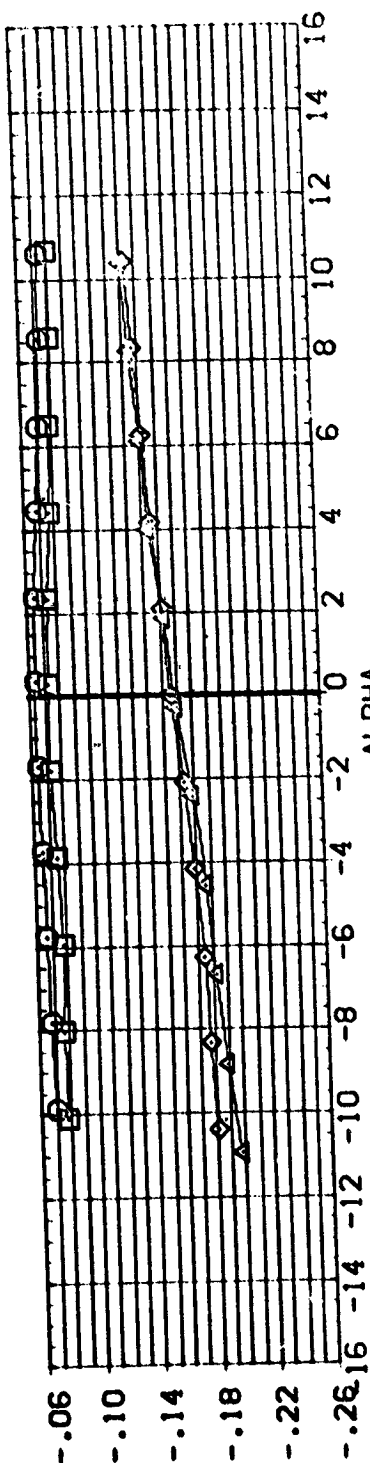
(F)MACH = 3.90

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE 0.150

BETA RUDDER
 5.000
 5.000
 5.000
 5.000

TIP1
 TIP1SIP2
 TIP101
 TIP1SIP201

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R06002) LRC LPVT 1056/1073 1A42A/B
 (R06004) LRC LPVT 1056/1073 1A42A/B
 (R06006) LRC LPVT 1056/1073 1A42A/B
 (R06008) LRC LPVT 1056/1073 1A42A/B

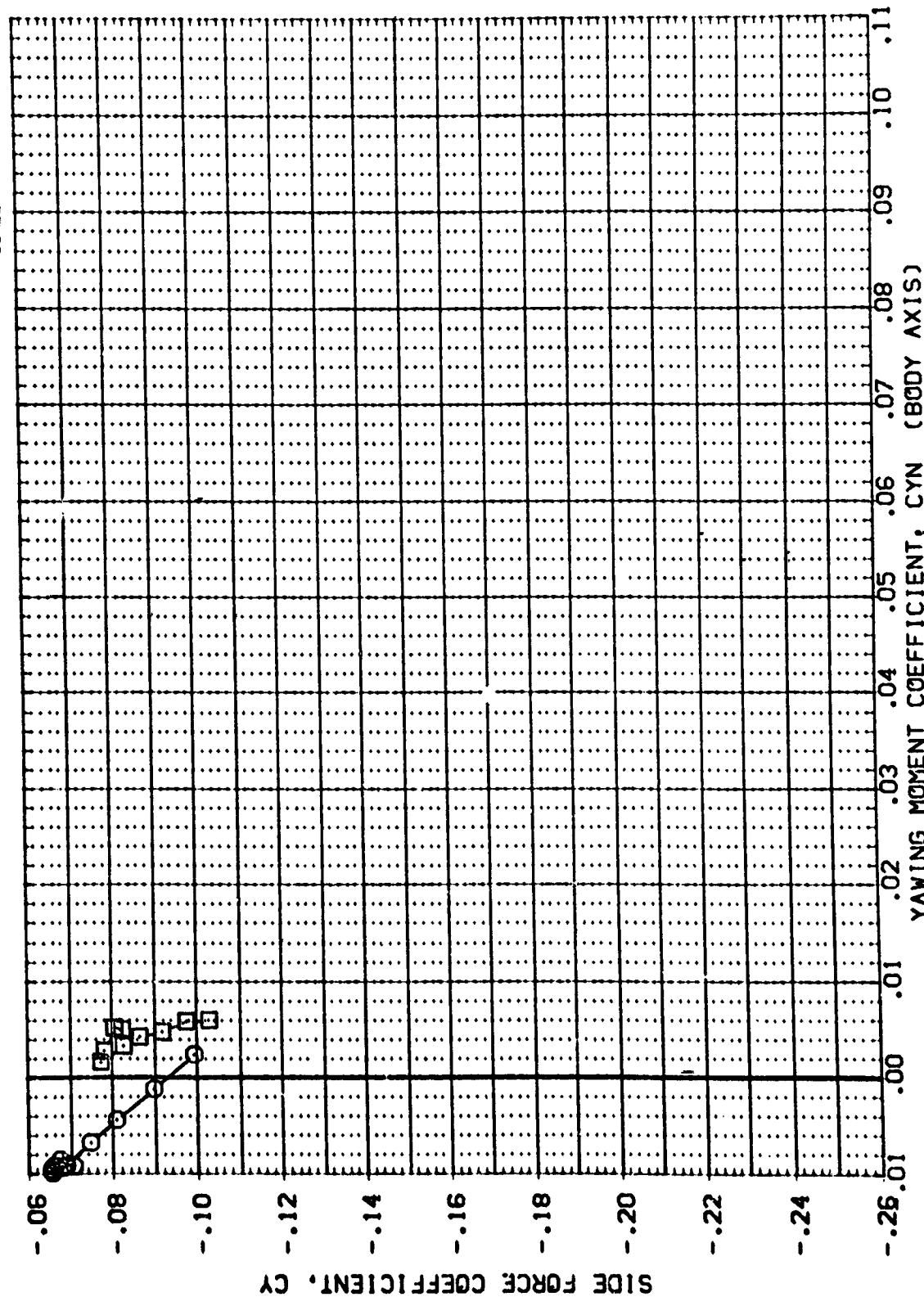


CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(G)MACH = 4.63



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	BETA	RUDDER	REFERENCE INFORMATION
(R05002)	LRC LPVT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	SREF 2690.0000 SQ.FT.
(R05004)	LRC LPVT 1056/1073 1A42A/B		5.000	.000	LREF 1290.3000 INCHES
(R05006)	DATA NOT AVAILABLE		5.000	.000	BREF 1290.3000 INCHES
(R05009)	DATA NOT AVAILABLE		5.000	.000	YMRP 976.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 INCHES



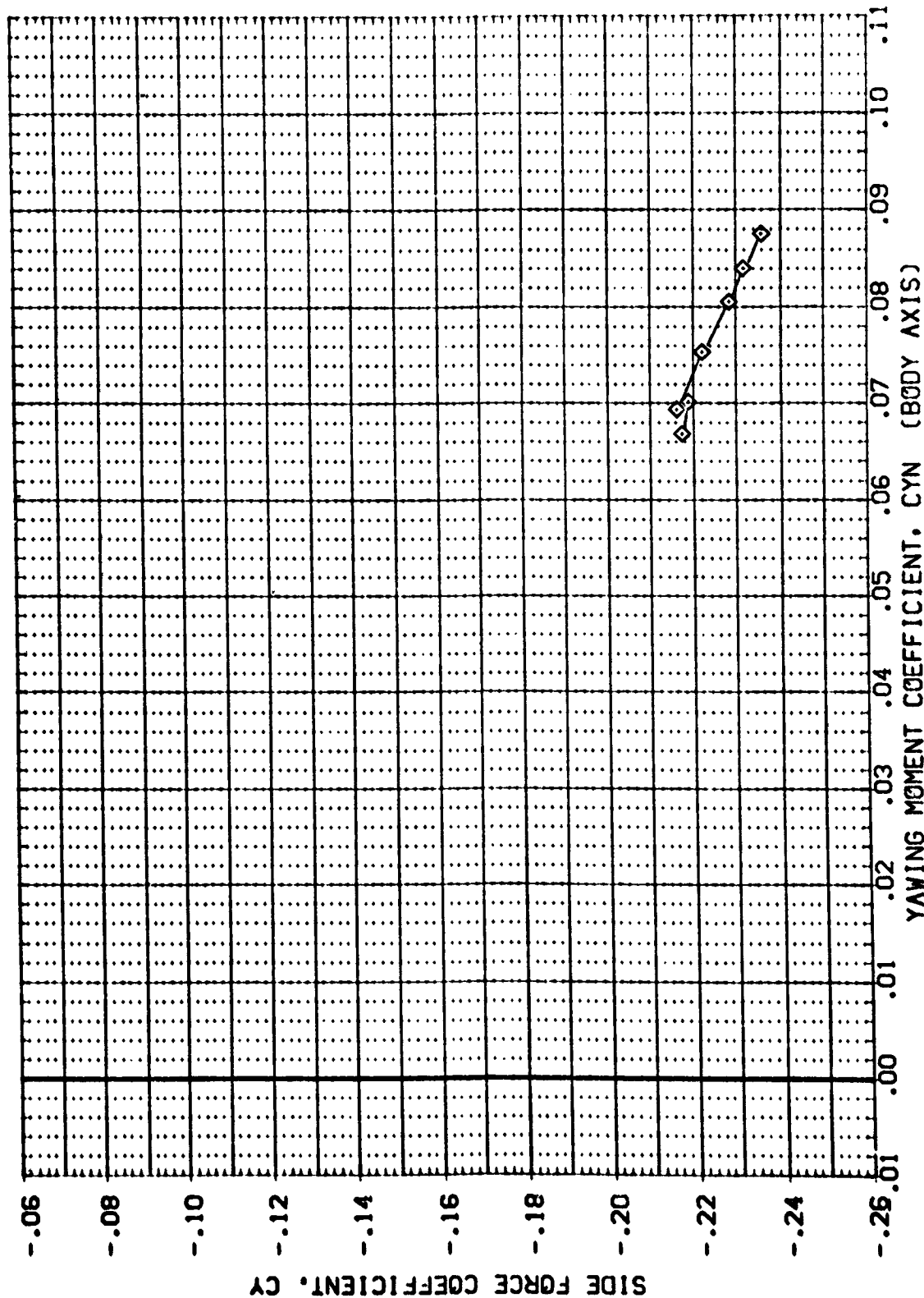
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
ROS002	DATA NOT AVAILABLE
RPE004	DATA NOT AVAILABLE
RDS006	LRC LPT 1056/1073 1M2M/B
RCS008	DATA NOT AVAILABLE

BETA	RUDER
5.000	.000
5.000	.000
5.000	.000
5.000	.000

REFERENCE INFORMATION	
SREF	2690.0000 SQ. FT.
LREF	1290.3000 INCHES
BREF	1290.3000 INCHES
XPREF	976.0000 INCHES
YREF	0.0000 INCHES
ZREF	400.0000 INCHES
SCALE	.0150 SCALE

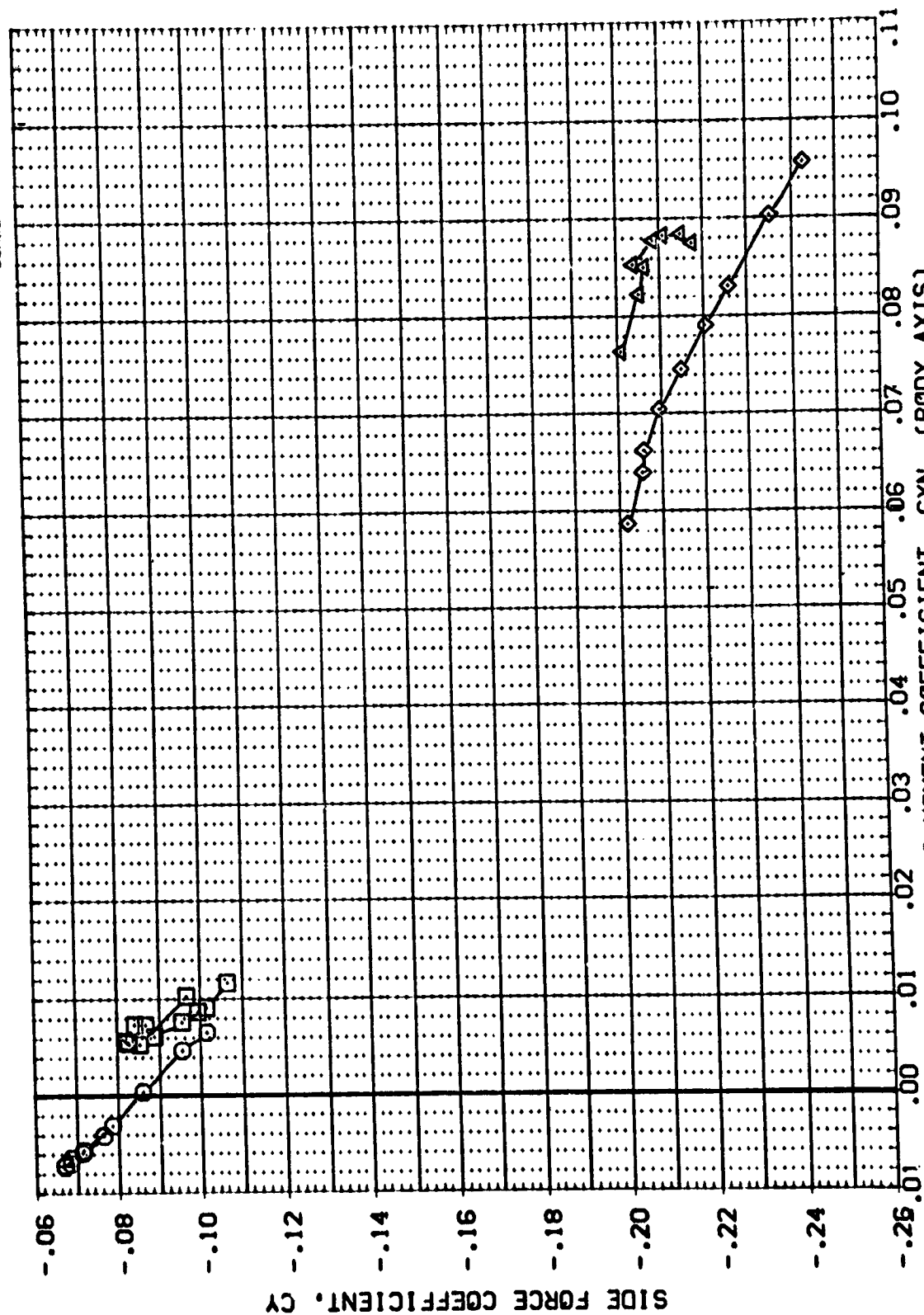


CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

$$\{B\}MACH = 1.70$$



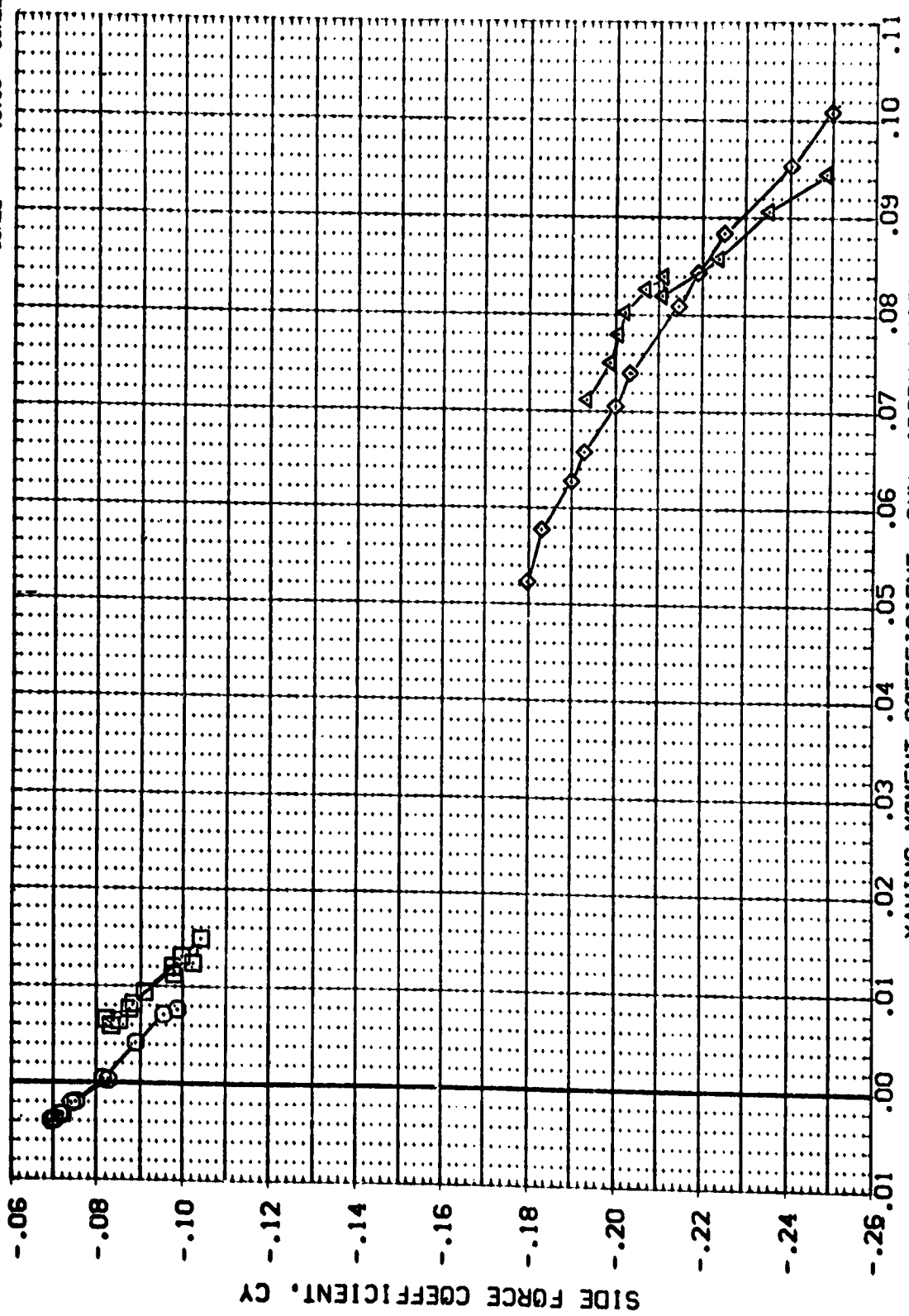
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	TIP1SIP2	BETA	RUDDER	REFERENCE INFORMATION
(R06002)	LRC UPVT 1056/1073 IM42A/B	TIP1SIP2		5.000	.000	SREF 2650.0000 SO.FT.
(R06004)	LRC UPVT 1056/1073 IM42A/B	TIP1SIP2		5.000	.000	LREF 1250.3000 INCHES
(R06006)	LRC UPVT 1056/1073 IM42A/B	TIP1SIP2		5.000	.000	BREF 1250.3000 INCHES
(R06008)	LRC UPVT 1056/1073 IM42A/B	TIP1SIP2		5.000	.000	YMRP 976.0000 INCHES
						ZMRP 400.0000 INCHES
						SCALE .0150



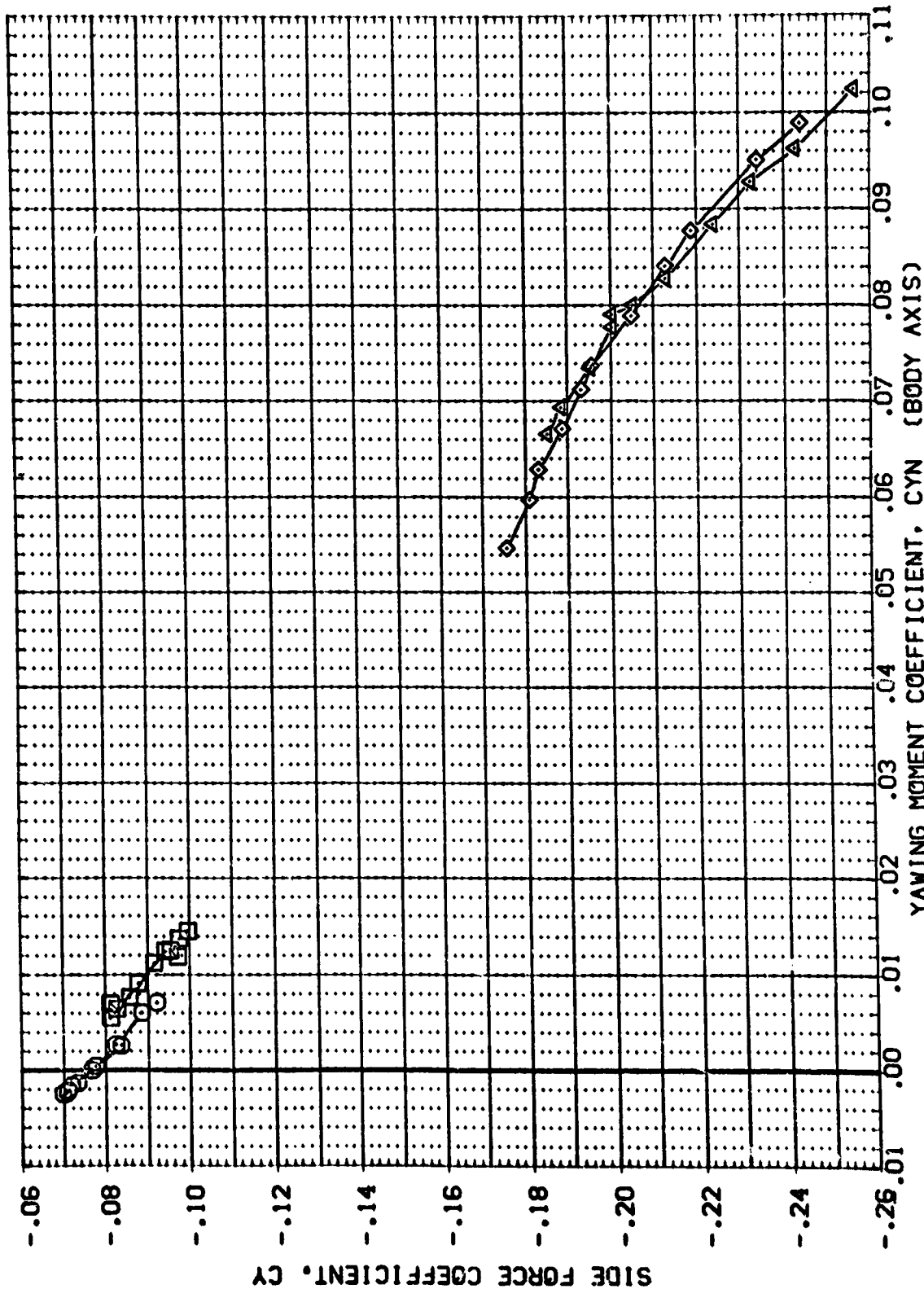
CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(C)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		RUDDER		REFERENCE INFORMATION	
(R05002)	□	LRC UPVT	1056/1073	IA42A/B	5.000	.000	SREF	2690.0000	50. FT.
(R05004)	○	LRC UPVT	1056/1073	IA42A/B	5.000	.000	LREF	1250.3000	INCHES
(R05006)	×	LRC UPVT	1056/1073	IA42A/B	5.000	.000	BREF	1290.3000	INCHES
(R05008)	□	LRC UPVT	1056/1073	IA42A/B	5.000	.000	XMRP	976.0000	INCHES
							YMRP	400.0000	INCHES
							SCALE	.0150	SCALE



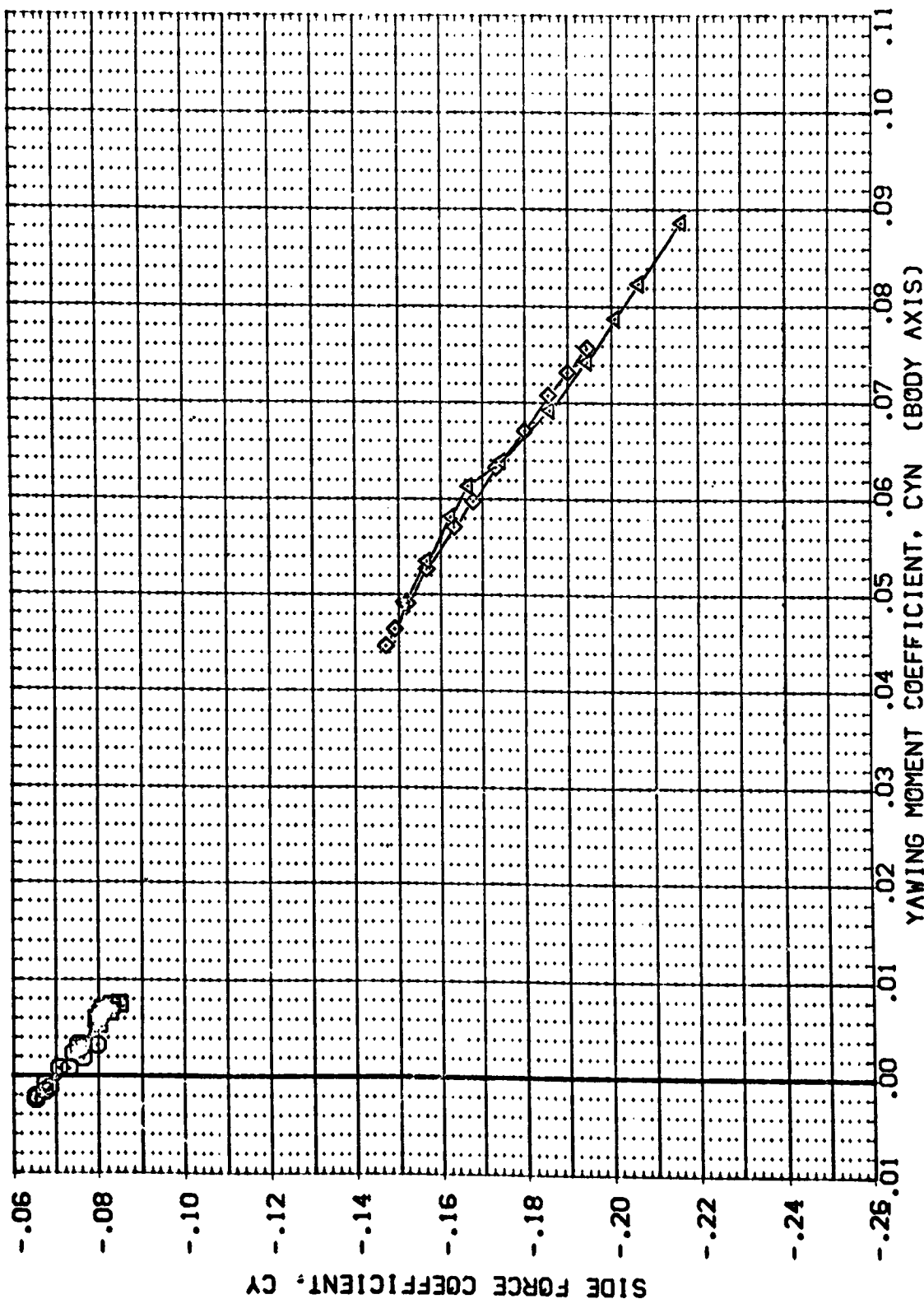
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	BETA	RUDDER	REFERENCE INFORMATION
(R06002)	LRC UPVT 1056/1073 IM42M/B	TIP1SIP2	5.000	.000	SREF 2690.0000 SO.FT.
(R06004)	LRC UPVT 1056/1073 IM42M/B	TIP101	5.000	.000	LREF 1290.3000 INCHES
(R06006)	LRC UPVT 1056/1073 IM42M/B	TIP1SIP201	5.000	.000	BREF 1290.3000 INCHES
(R06008)	LRC UPVT 1056/1073 IM42M/B				XMRP 576.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 INCHES



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(CJMACH = 2.86

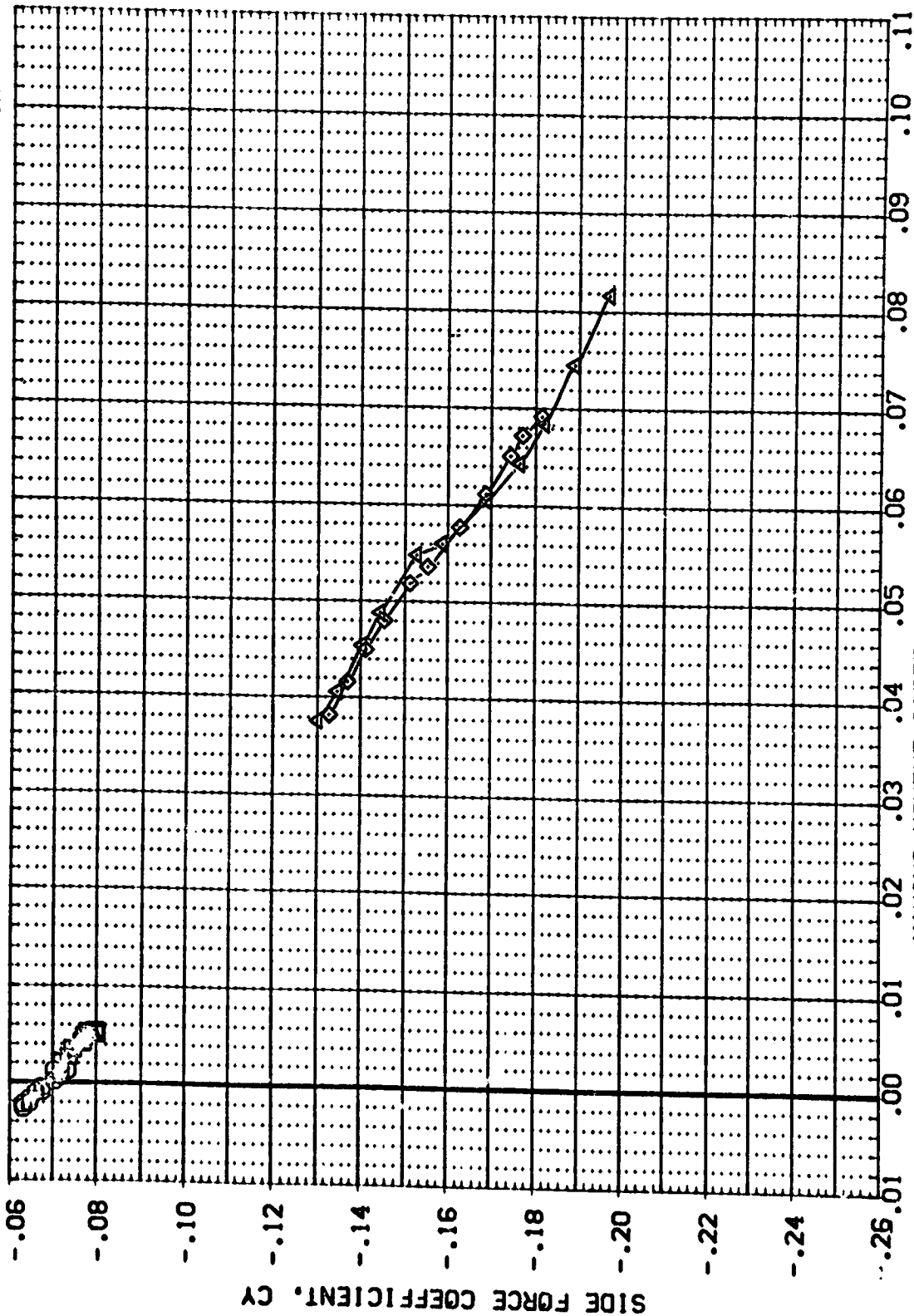
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1	BETA	RUDDER	REFERENCE INFORMATION
(R06002)	LRC LPVT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	SREF 2690.0000 SO.FT.
(R06004)	LRC LPVT 1056/1073 1A42A/B	TIP1Q1	5.000	.000	LREF 1290.3000 INCHES
(R06006)	LRC LPVT 1056/1073 1A42A/B	TIP1SIP201	5.000	.000	BREF 1290.3000 INCHES
(R06008)	LRC LPVT 1056/1073 1A42A/B		5.000	.000	XMRP 976.0000 INCHES
					YMRP 400.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(F)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP	BETA	RUDDER	REFERENCE INFORMATION
R05002	LRC LPVT 1056/1073 1A42A/B	TIP1	5.000	.000	SREF 2690.0000 SO.FT.
R05004	LRC LPVT 1056/1073 1A42A/B	TIP1SIP2	5.000	.000	LREF 1290.3000 INCHES
R05006	LRC LPVT 1056/1073 1A42A/B	TIP101	5.000	.000	BREF 1290.3000 INCHES
R05008	LRC LPVT 1056/1073 1A42A/B	TIP1SIP201	5.000	.000	XMRP 976.0000 INCHES
					YMRP .0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

CONFIGURATION BUILDUP EFFECT ON LAT.-DIRECT. CHARACTERISTICS

(G)MACH = 4.63

DATA SET SYMBOL
 (M06007)
 (M06014)
 (M06016)

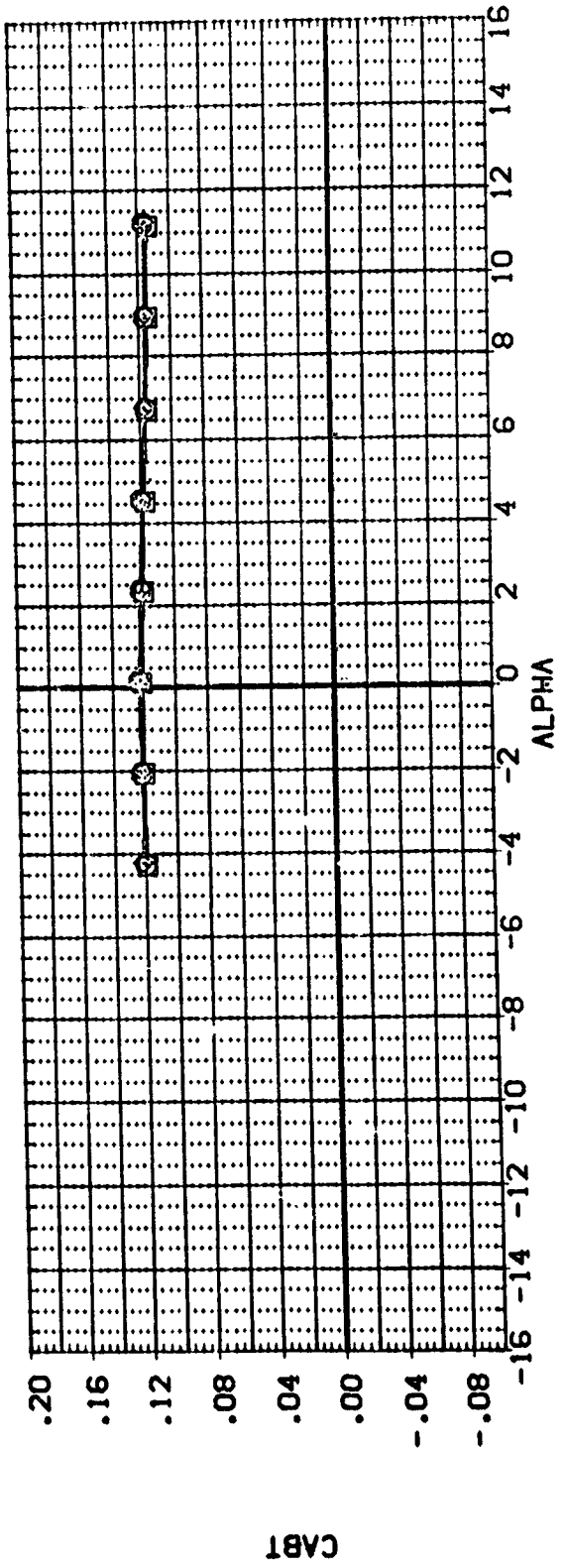
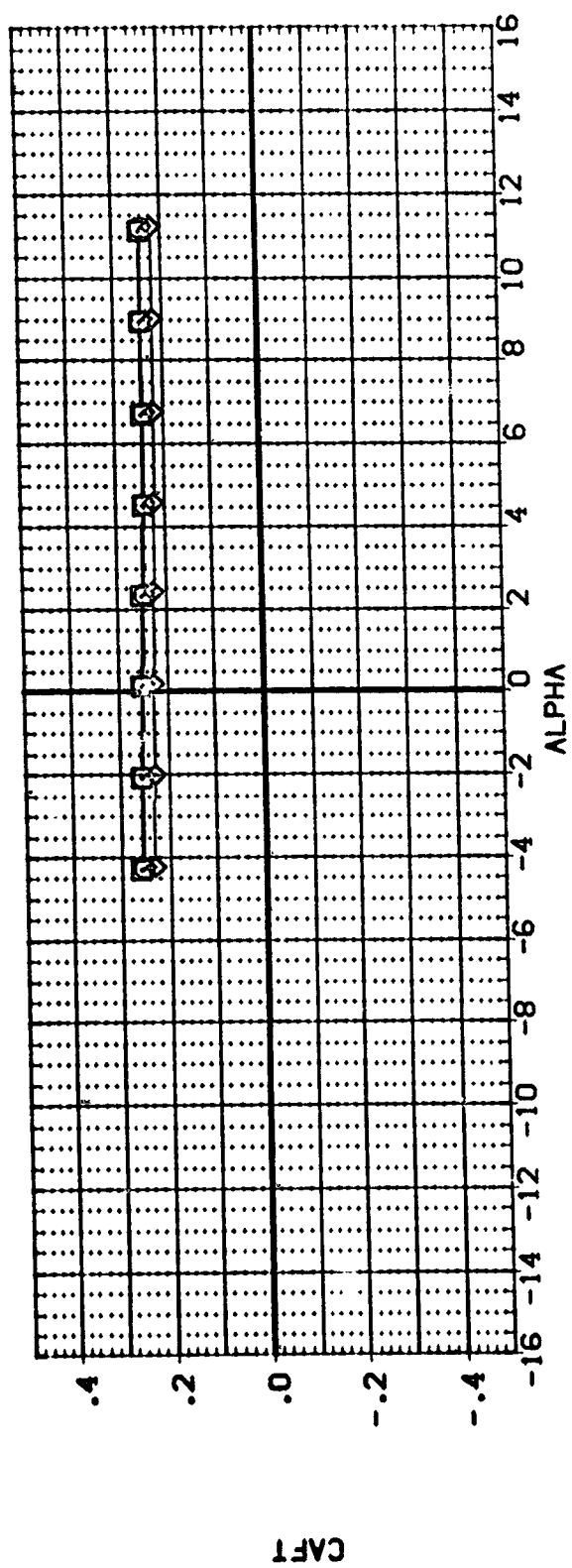
CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B

TIPISIP201
 T4P6SIP201
 T2P4SIP201

BETA
 .000
 .000
 .000

RUDDER
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 50. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

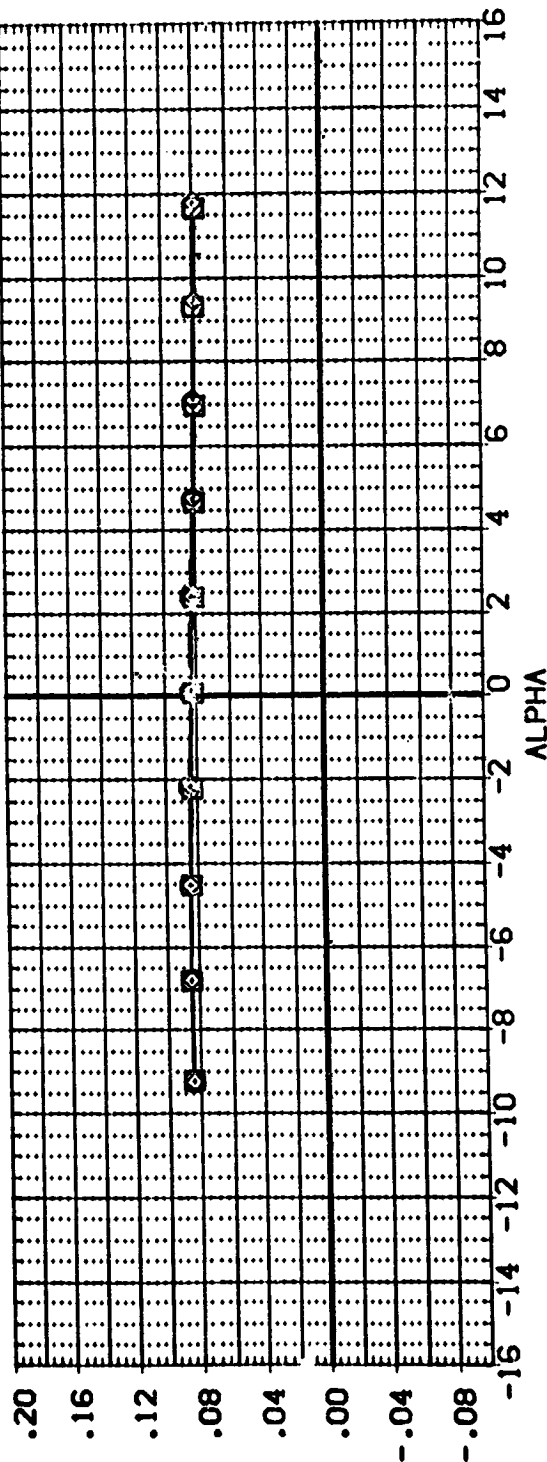
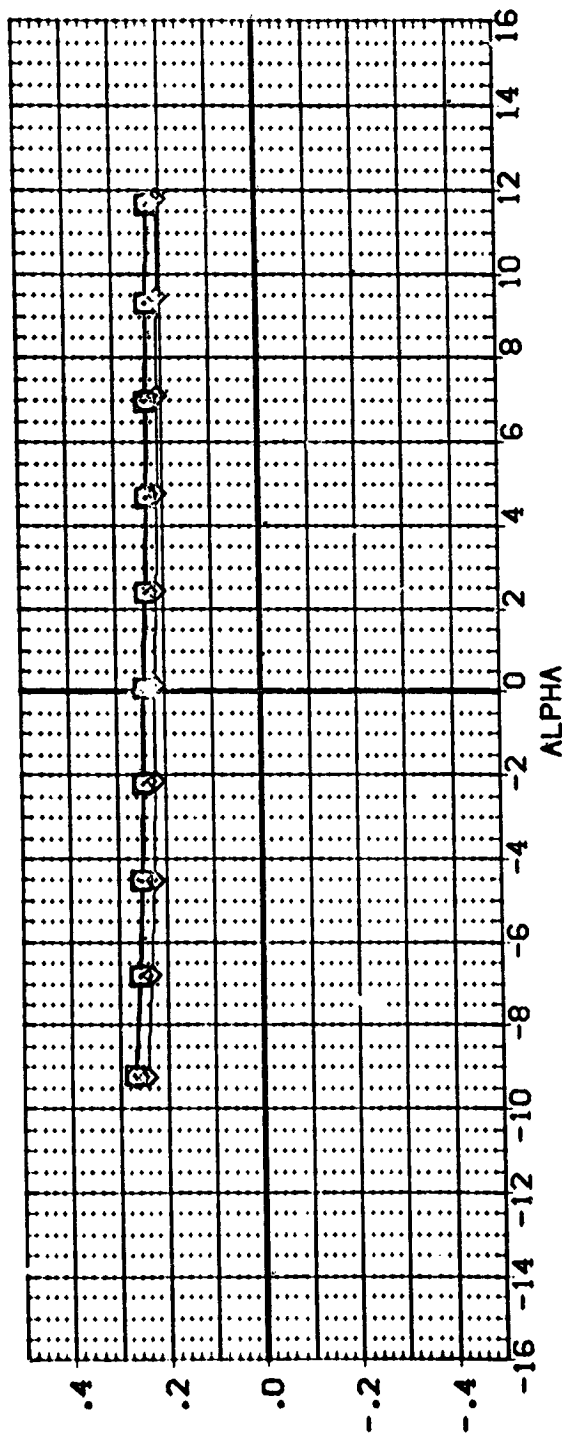
DATA SET SYMBOL
 H05007
 H05014
 H05016

CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 I42A/B
 LRC UPVT 1056/1073 I42A/B
 LRC UPVT 1056/1073 I42A/B

BETA RUDDER
 .000
 .000
 .000

TIP(SIP20)
 T4P6SIP20
 T2P4SIP20

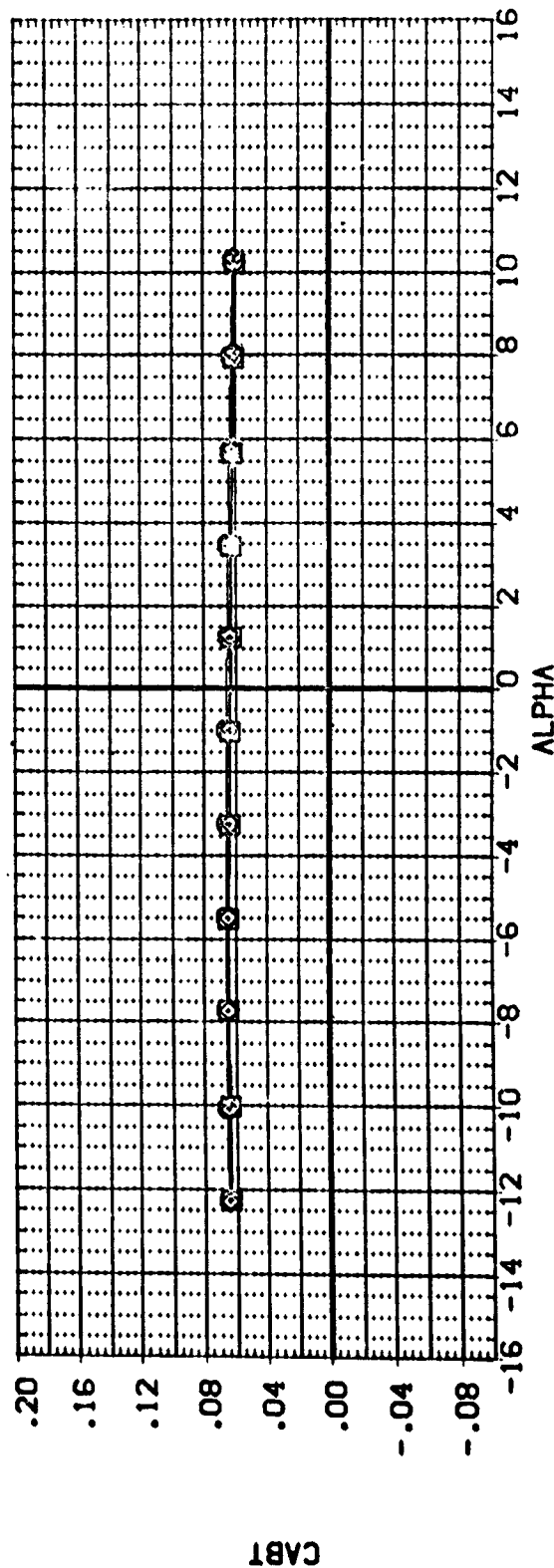
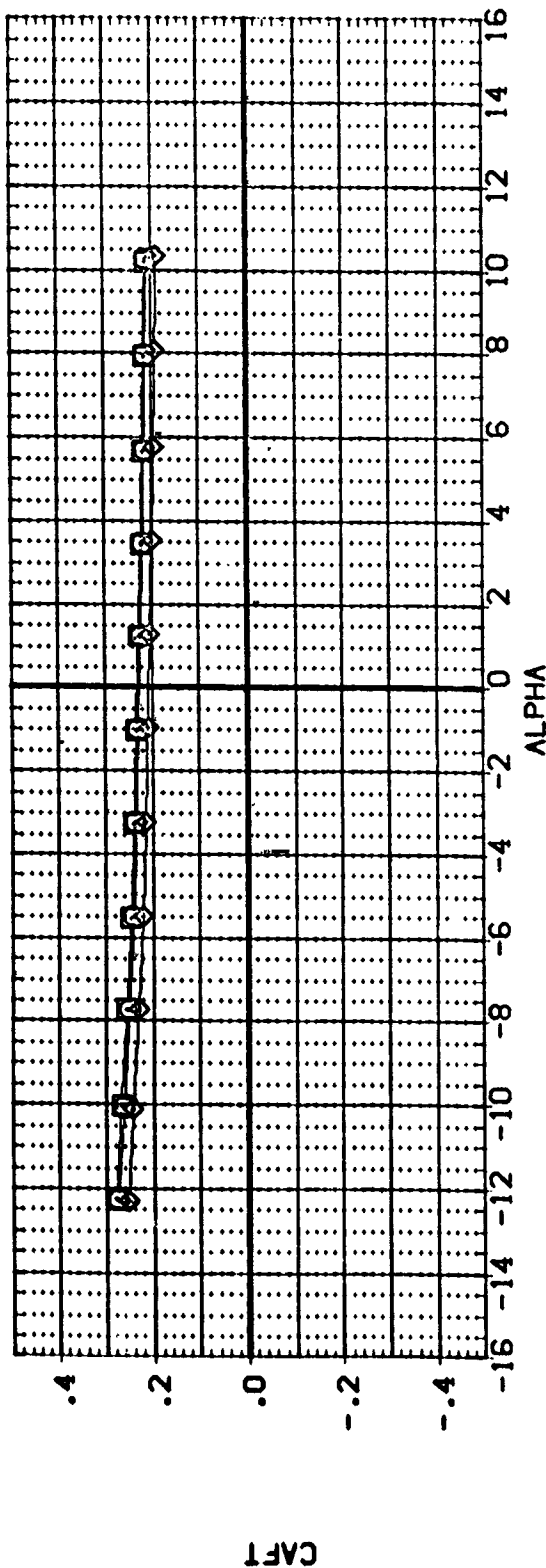
CFT



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05007)	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 50. FT.
(H05014)	LRC UPVT 1056/1073 1A42A/B	.000	.000	LREF 1290.3000 INCHES
(H05016)	LRC UPVT 1056/1073 1A42A/B	.000	.000	BREF 1290.3000 INCHES
				YMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 INCHES



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
VMRP	976.0000	INCHES
ZMRP	.0000	INCHES
SCALE	400.0000	INCHES
	.0150	SCALE

BETA

RUDDER	.000
	.000
	.000

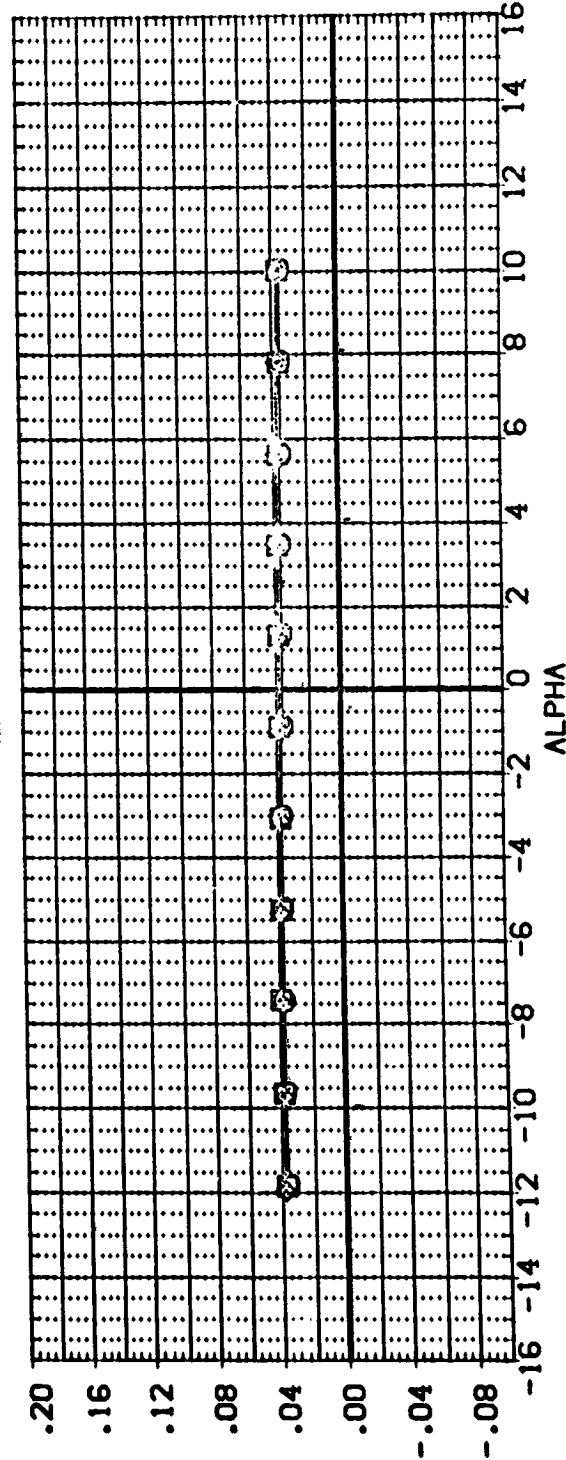
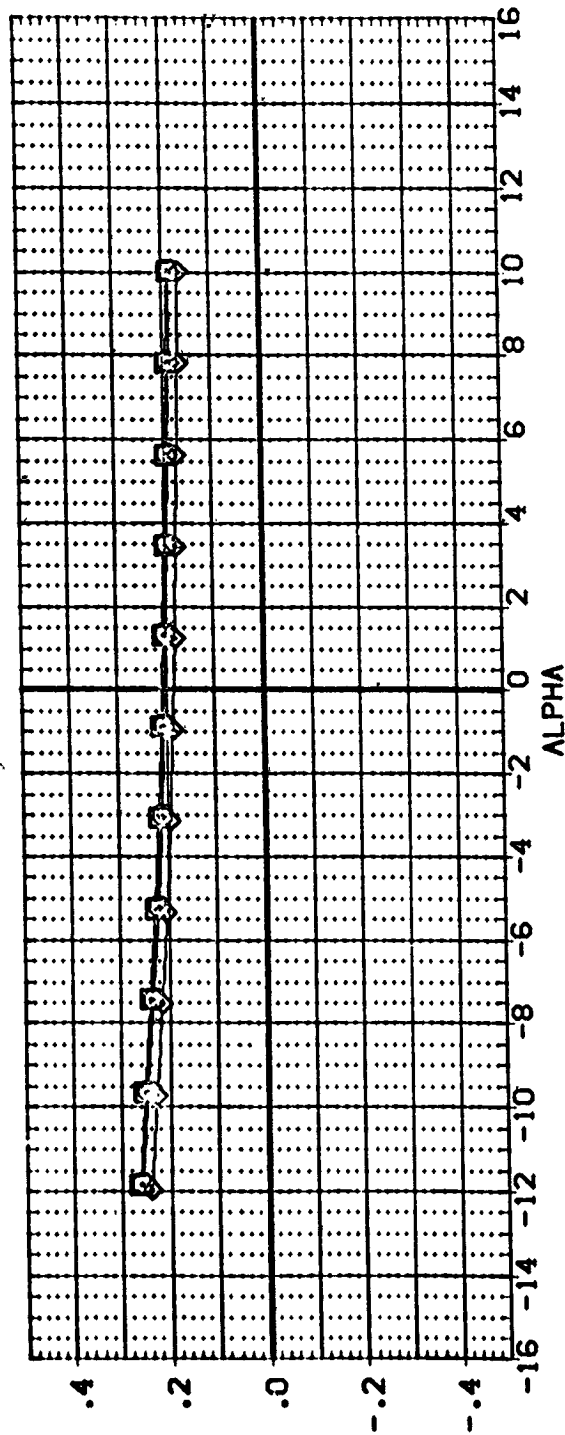
TIPISIP201
T4P65IP201
T2P45IP201

CONFIGURATION DESCRIPTION

LRC UPVT 1056/1073	IA42A/B
LRC UPVT 1056/1073	IA42A/B
LRC UPVT 1056/1073	IA42A/B

DATA SET SYMBOL

(H25007)	
(H05014)	
(H05016)	



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(O)MACH = 3.90

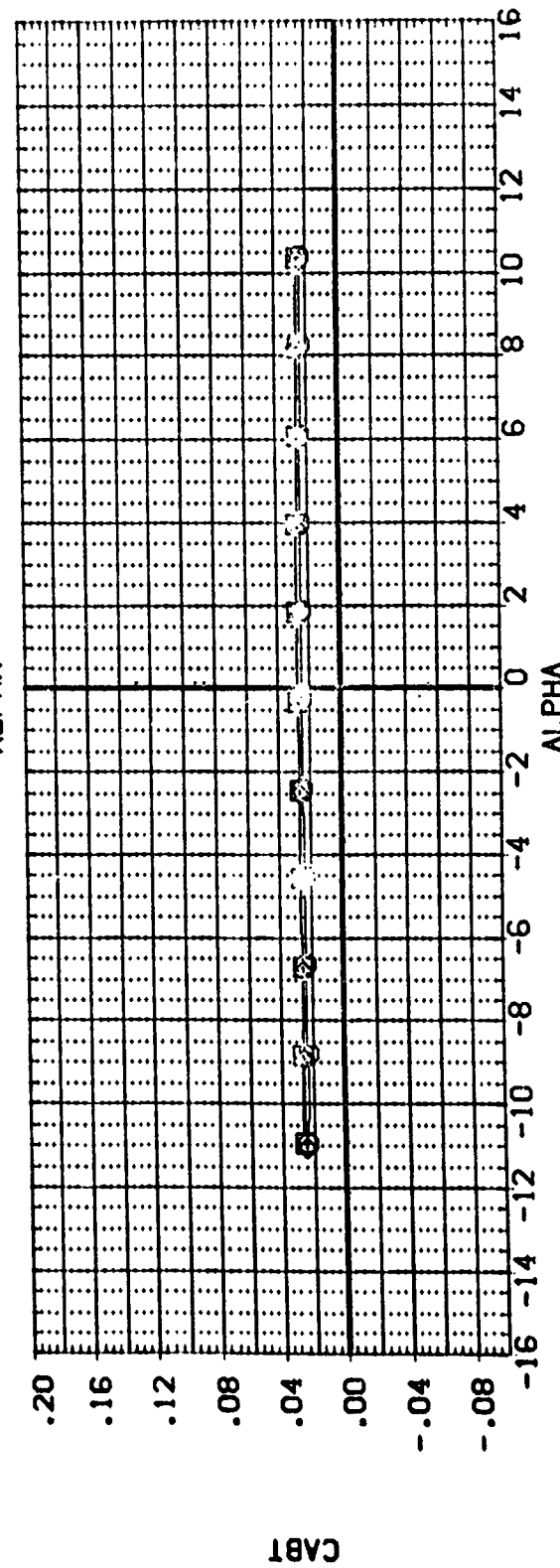
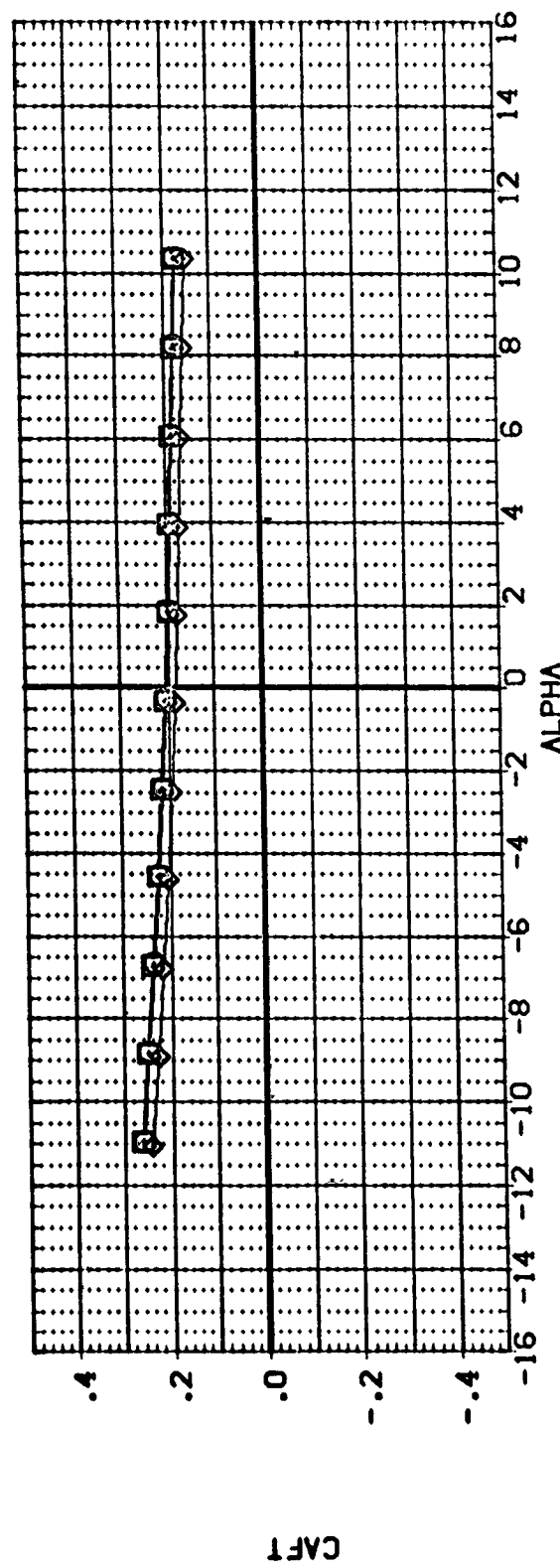
DATA SET SYMBOL
 (M05007)
 (M05014)
 (M05016)

CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 1M2M/B
 LRC UPVT 1056/1073 1M2M/B
 LRC UPVT 1056/1073 1M2M/B

BETA
 .000
 .000
 .000

RUDDER
 .000
 .000
 .000

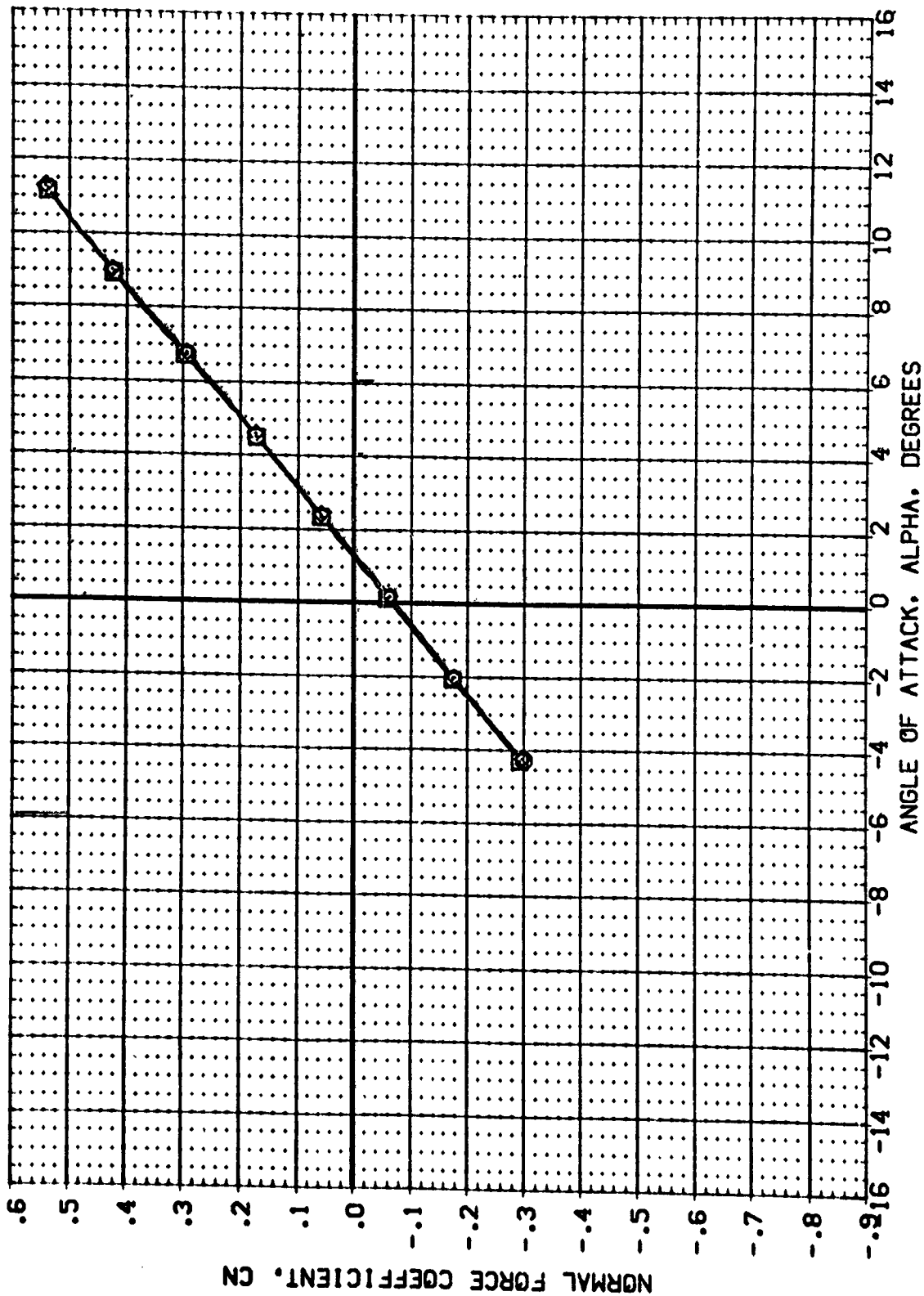
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05007)	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 50. FT.
(H05014)	LRC UPVT 1056/1073 1A42A/B	.000	.000	LREF 1290.3000 INCHES
(H05016)	LRC UPVT 1056/1073 1A42A/B	.000	.000	BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

H05007 LRC UPVT 1056/1073 1A42A/B

H05014 LRC UPVT 1056/1073 1A42A/B

H05016 LRC UPVT 1056/1073 1A42A/B

TIP1SIP201
T4P6SIP201
T2P4SIP201

BETA RUDDER

.000 .000

.000 .000

.000 .000

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 1290.3000 INCHES

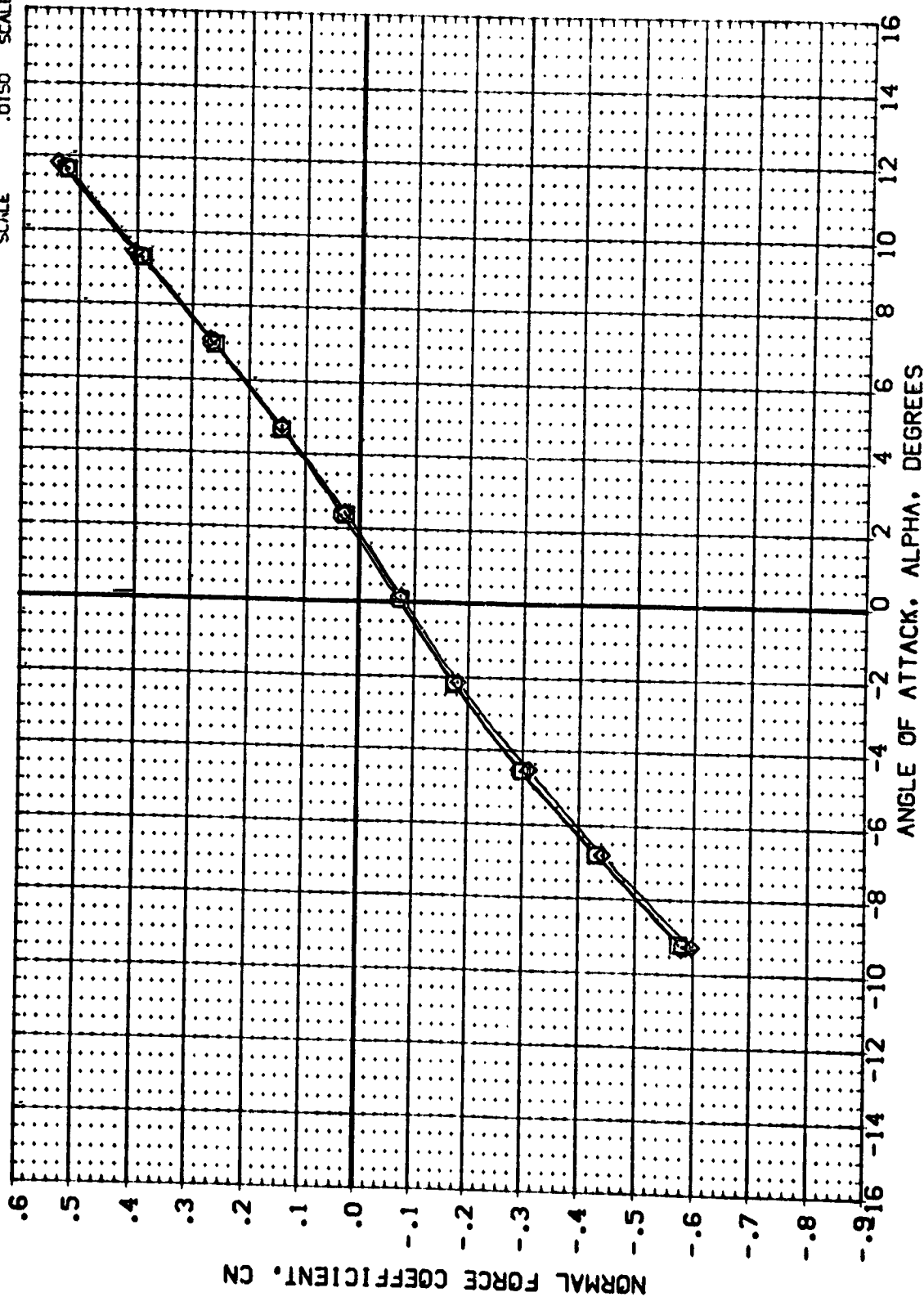
BREF 1290.3000 INCHES

XMRP 976.0000 INCHES

YMRP .0000 INCHES

ZMRP 400.0000 INCHES

SCALE .0150 INCHES



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

REFERENCE INFORMATION

SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XPRP	976.0000	INCHES
YPRP	.0000	INCHES
ZPRP	400.0000	INCHES
SCALE	.0150	SCALE

BETA RUDDER

BETA	.000
RUDDER	.000

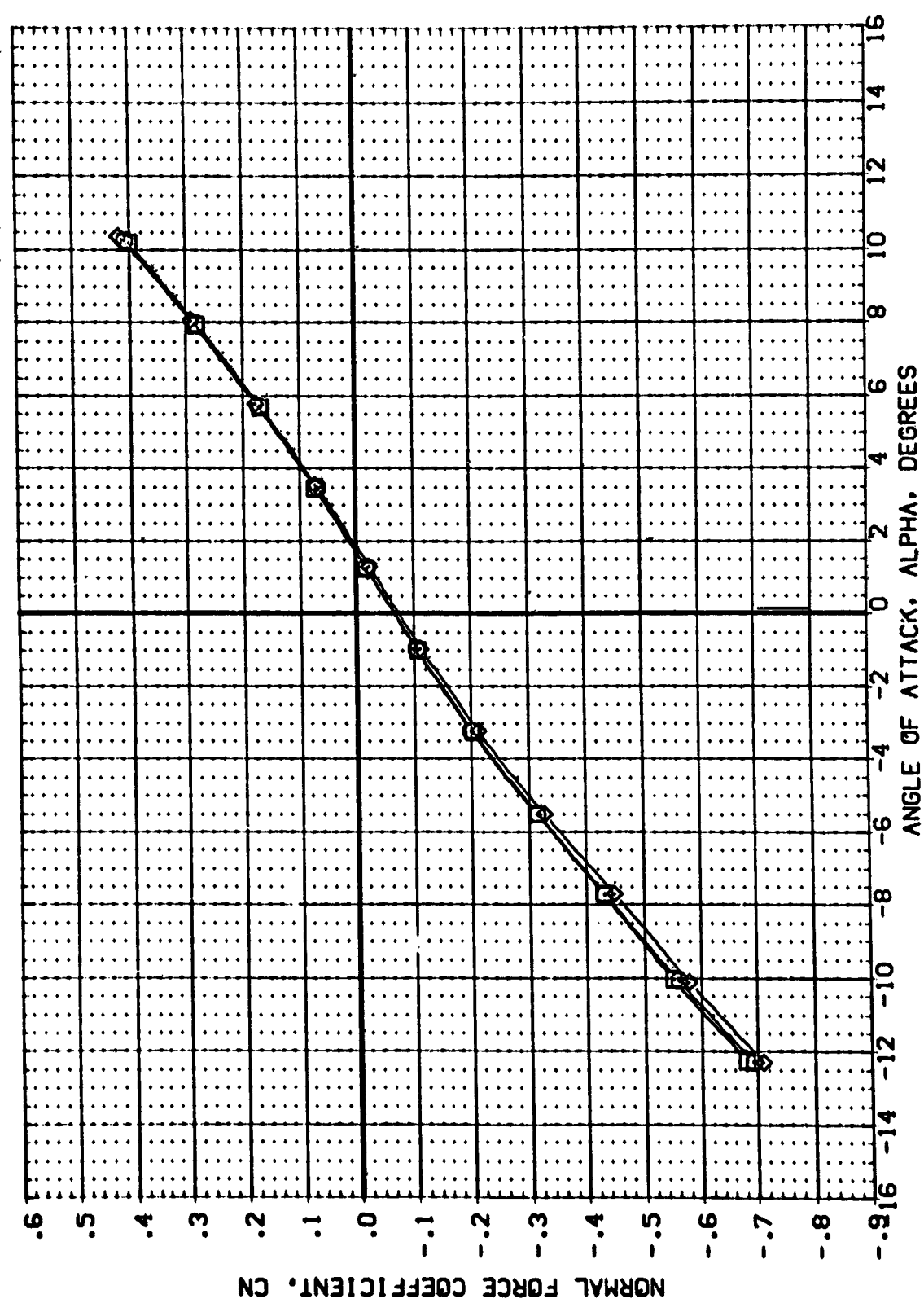
TIPISIP201
T4P6SIP201
T2P4SIP201

CONFIGURATION DESCRIPTION

LRC UPVT	1056/1073	IA42A/B
LRC UPVT	1056/1073	IA42A/B
LRC UPVT	1056/1073	IA42A/B

DATA SET SYMBOL

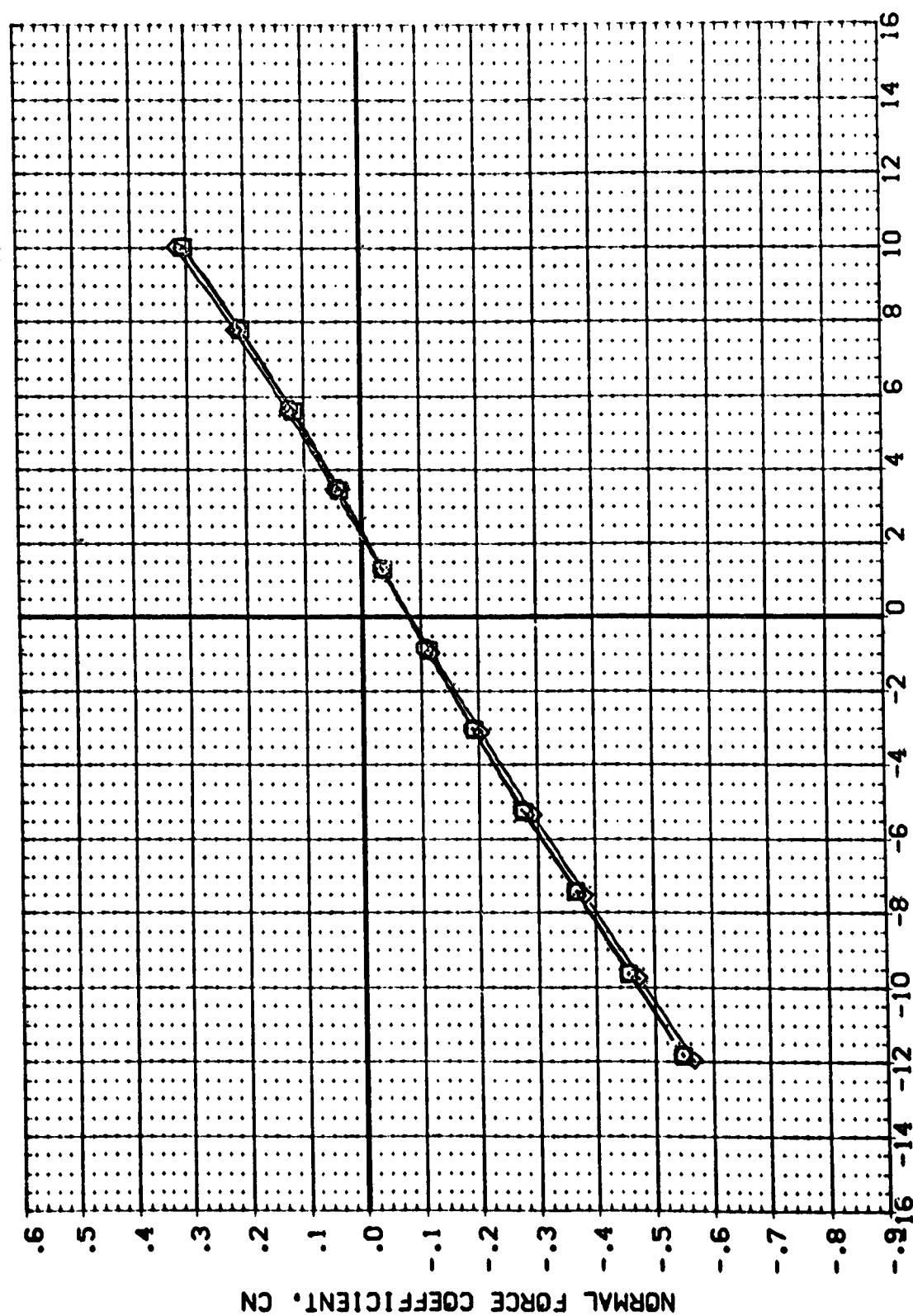
1405007	
1405014	
1405016	



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS


(C)MACH = 2.86

DATA SET SYMBOL



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

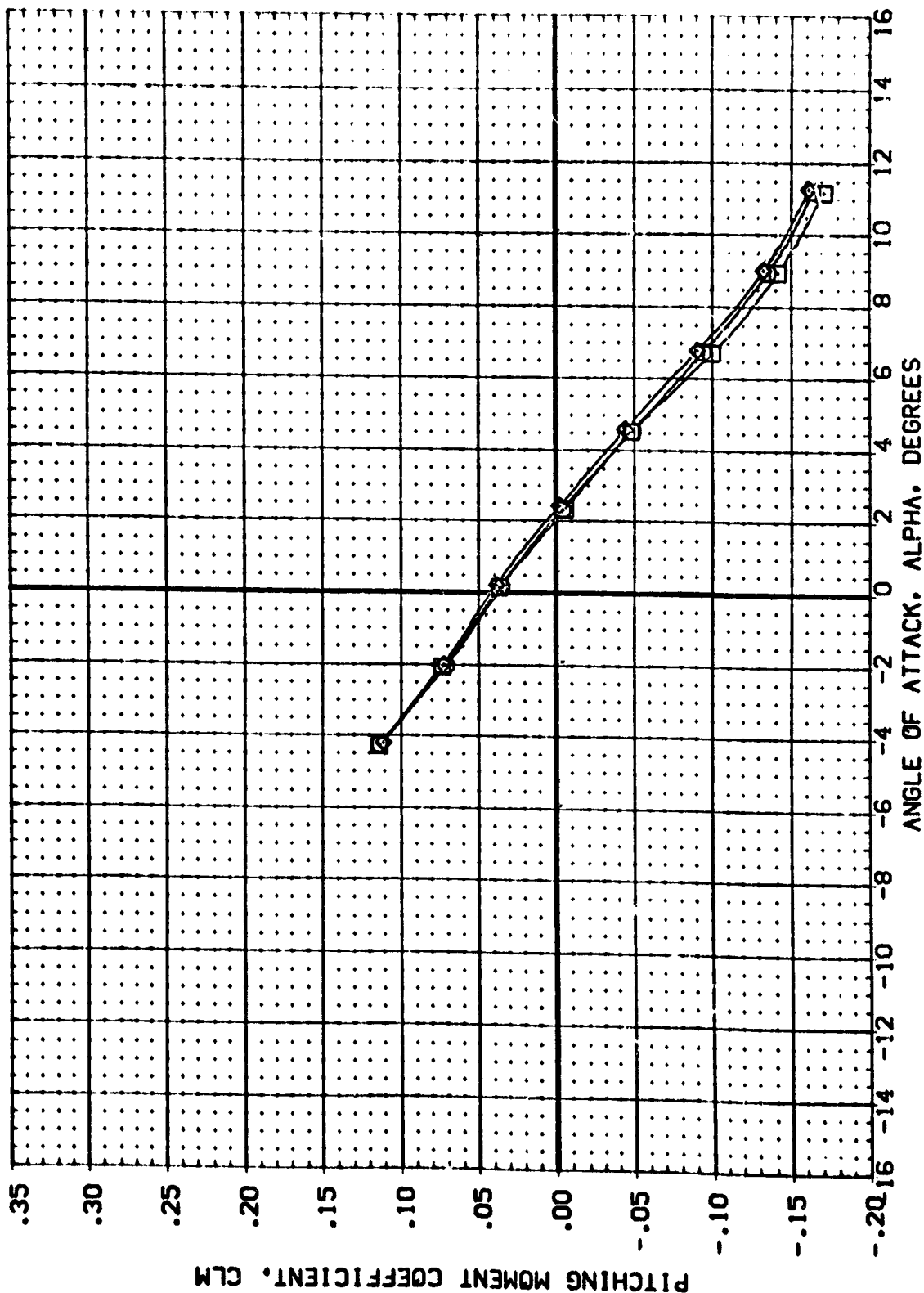
(D)MACH = 3.90

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION:
 (M05007) LRC UPWT 1056/1073 1A12A/B
 (M05014) LRC UPWT 1056/1073 1A12A/B
 (M05016) LRC UPWT 1056/1073 1A12A/B

TIPISIP201
 T4P6SIP201
 T2P4SIP201

BETA: .000
 .000
 .000

REFERENCE INFORMATION:
 SREF 2650.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(H05007)	LRC UPVT 1056/1073	IA42A/B
(H05014)	LRC UPVT 1056/1073	IA42A/B
(H05016)	LRC UPVT 1056/1073	IA42A/B

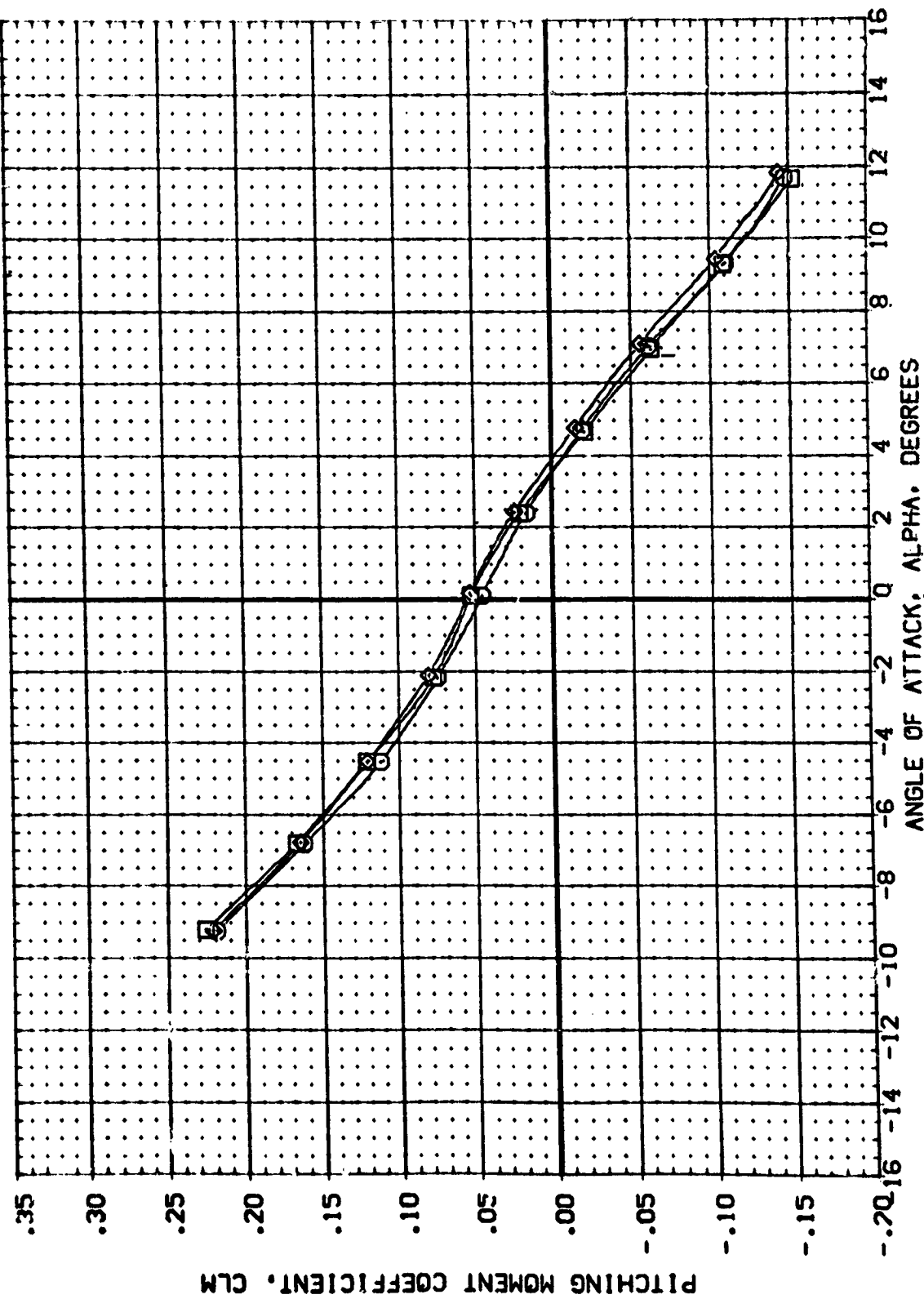
REFERENCE INFORMATION

SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	INCHES
YMRP	400.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	.0150	SCALE

BETA RUDDER

.000	.000
.000	.000
.000	.000

TIPISIP201
T4P6SIP201
T2P4SIP201



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

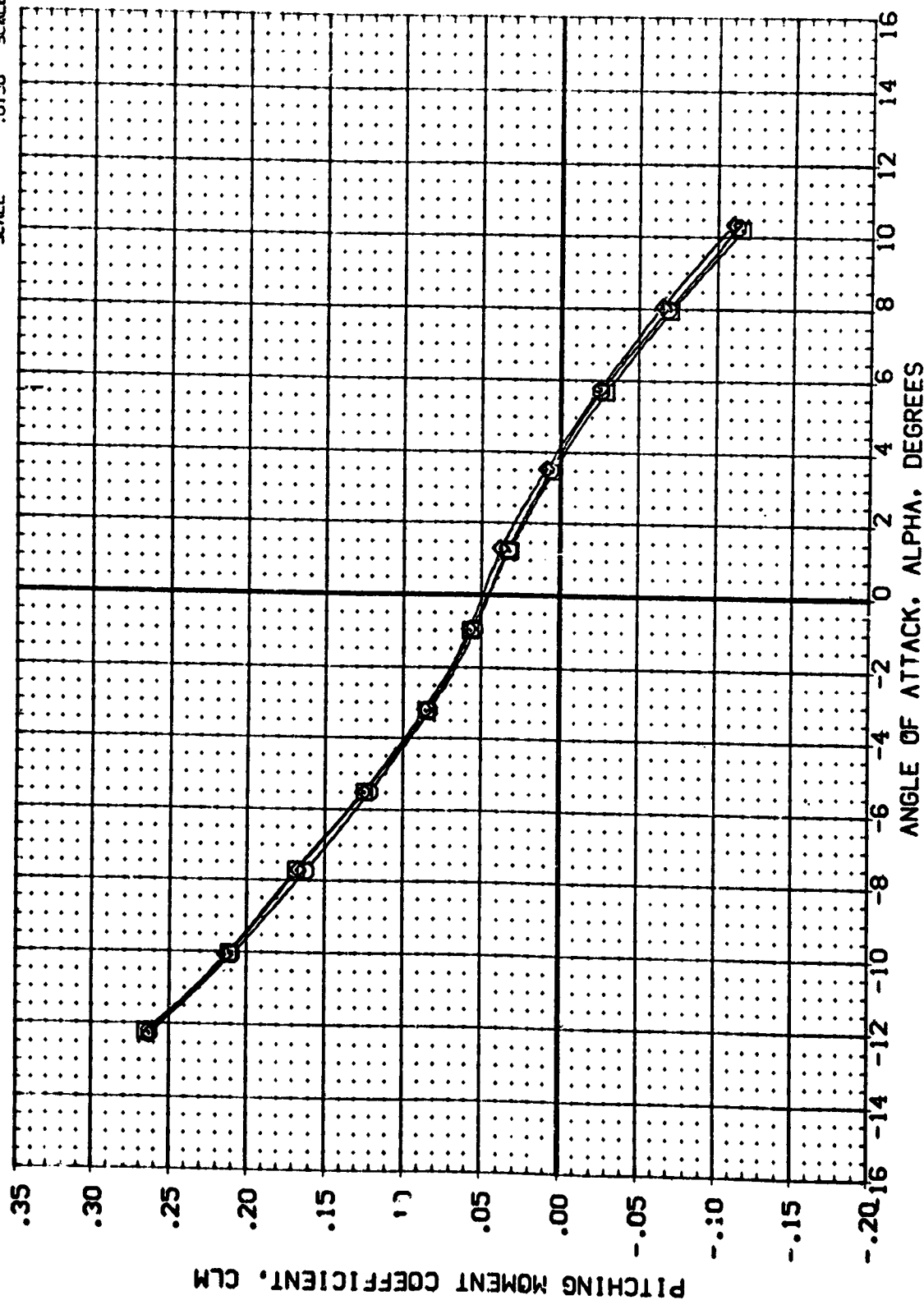
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (M05007) LRC UPMT 1056/1073 1A42A/B
 (M05014) LRC UPMT 1056/1073 1A42A/B
 (M05016) LRC UPMT 1056/1073 1A42A/B

TIPISIP201
 T4P6SIP201
 T2P4SIP201

BETA .000
 .000
 .000
 .000

RUDDER
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

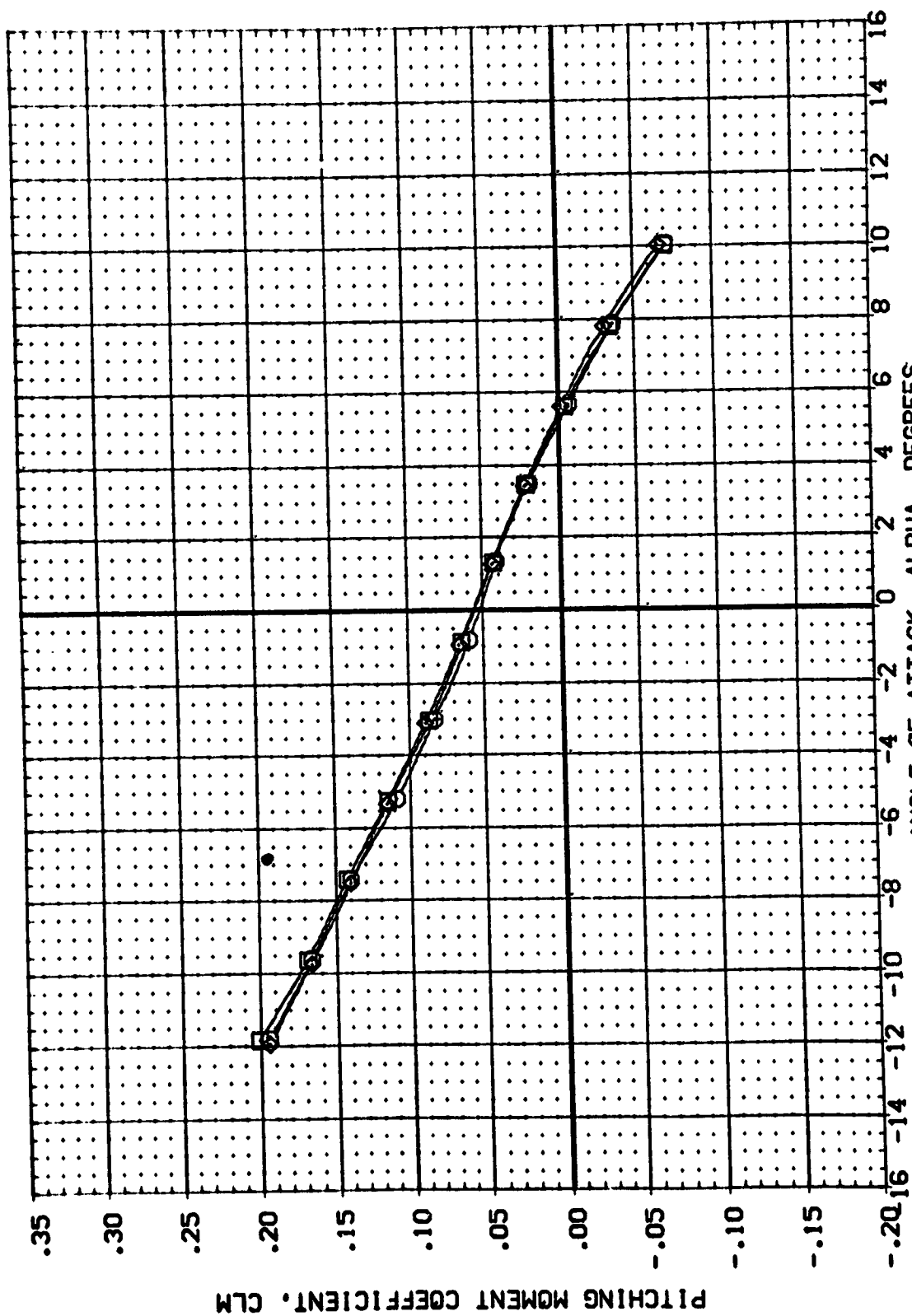
(C)MACH = 2.86

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

BETA .000
 .000
 .000
 RUDDER .000
 .000
 .000

TIP1SIP201
 T4P6SIP201
 T2P4SIP201

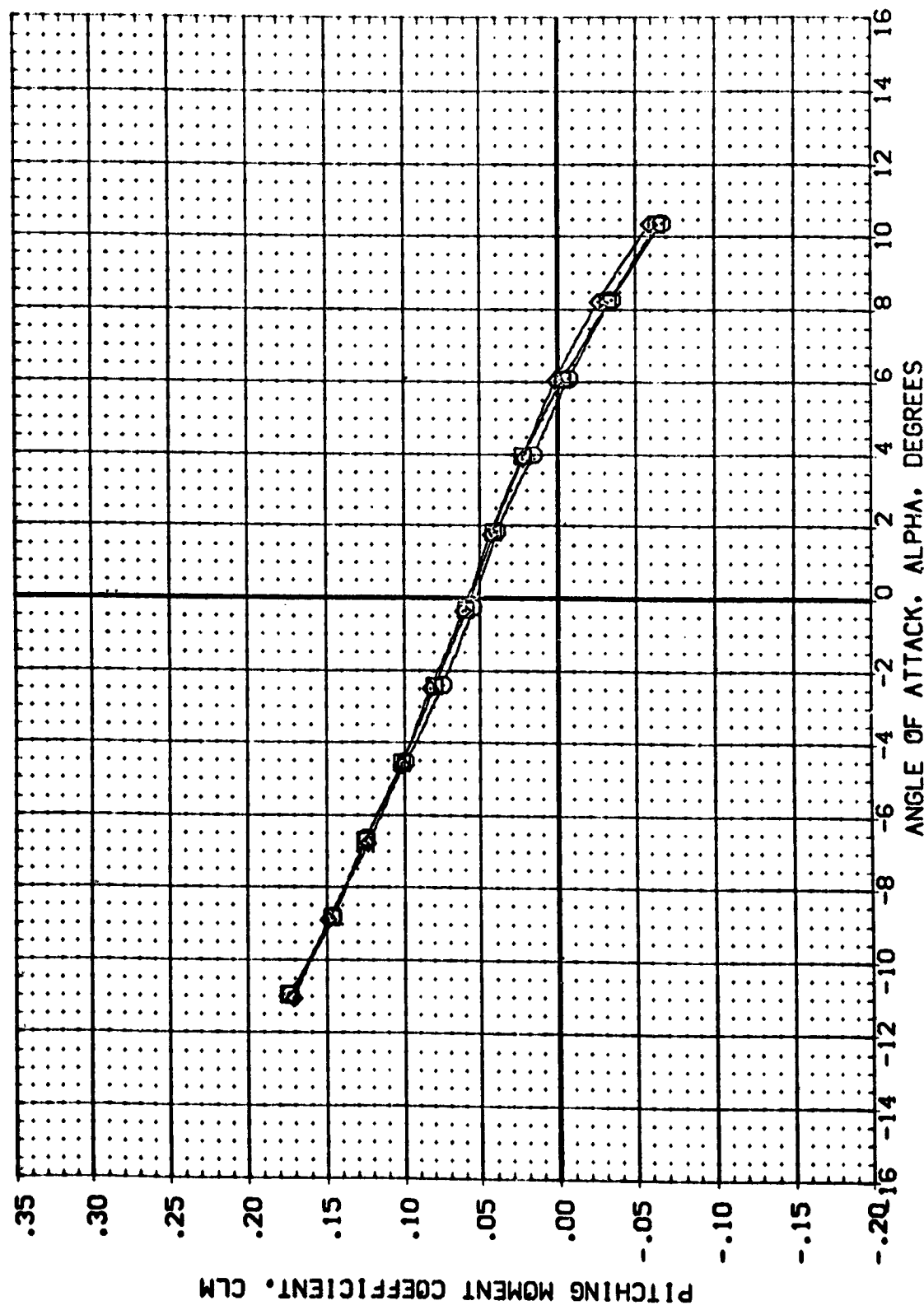
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (M06007) LRC UPWT 1056/1073 1A42A/B
 (M06014) LRC UPWT 1056/1073 1A42A/B
 (M06016) LRC UPWT 1056/1073 1A42A/B



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

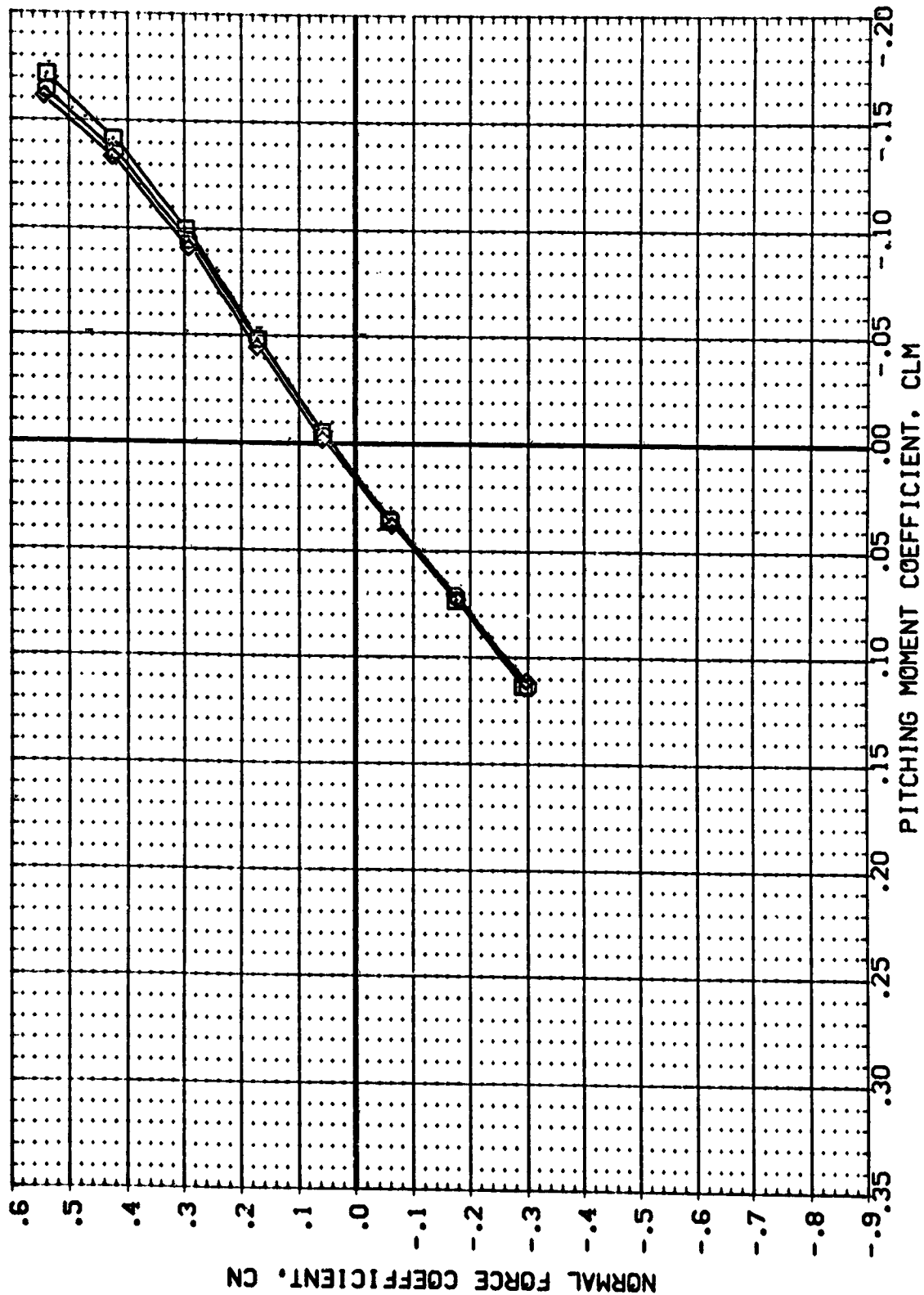
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H06007)	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 SO.FT.
(H06014)	LRC UPVT 1056/1073 1A42A/B	.000	.000	LREF 1290.3000 INCHES
(H06016)	LRC UPVT 1056/1073 1A42A/B	.000	.000	BREF 1290.3000 INCHES
				YMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
14060071	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 SO.FT.
14060141	LRC UPVT 1056/1073 1A42A/B	.000	.000	LREF 1290.3000 INCHES
14060161	LRC UPVT 1056/1073 1A42A/B	.000	.000	BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

REFERENCE INFORMATION

SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	INCHES
YMRP	400.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	.0150	SCALE

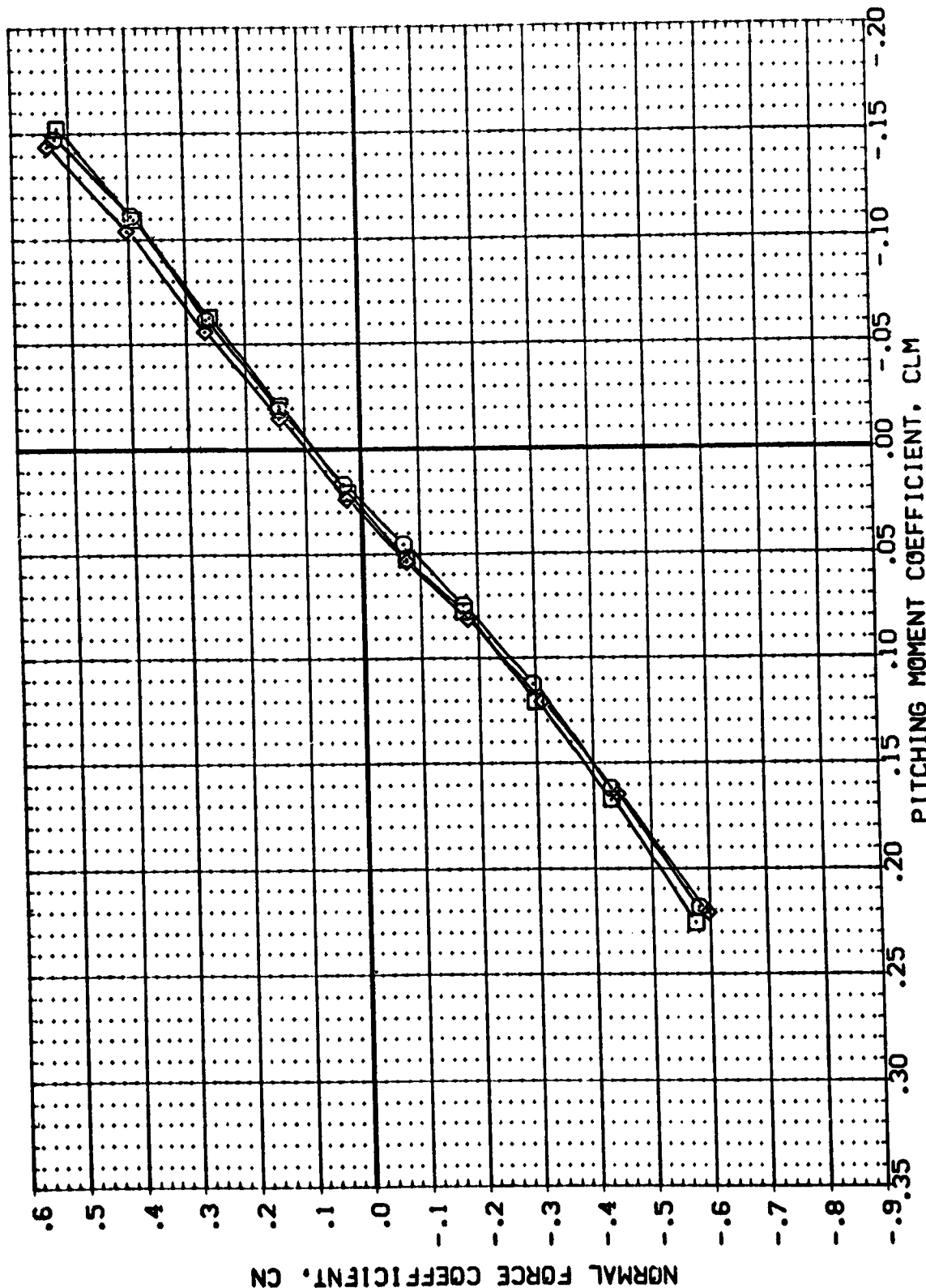
BETA

RUDER	.000
.000	.000
.000	.000

TIPISIP201
T4P6SIP201
T2P4SIP201

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(H05007)	LRC UPVT 1056/1073 IM2A/B
(H05014)	LRC UPVT 1056/1073 IM2A/B
(H05016)	LRC UPVT 1056/1073 IM2A/B



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	INCHES
YMRP	400.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	.0150	SCALE

BETA

RUDER	.000
.000	.000
.000	.000

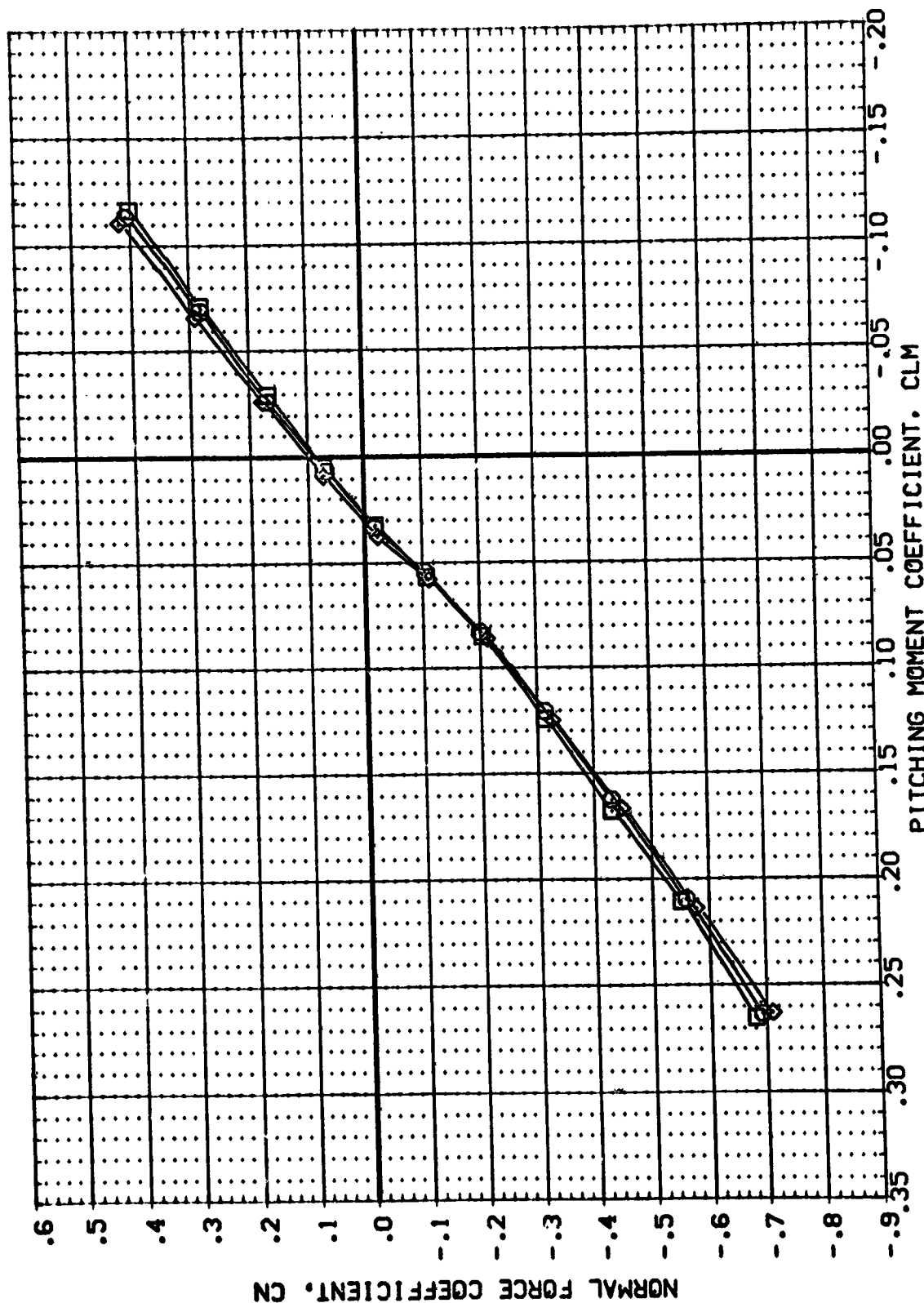
TIPISIP201
T4P6SIP201
T2P4SIP201

CONFIGURATION DESCRIPTION

LRC UPVT 1056/1073	IA42A/B
LRC UPVT 1056/1073	IA42A/B
LRC UPVT 1056/1073	IA42A/B

DATA SET SYMBOL

(H05007)	
(H05014)	
(H05016)	



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

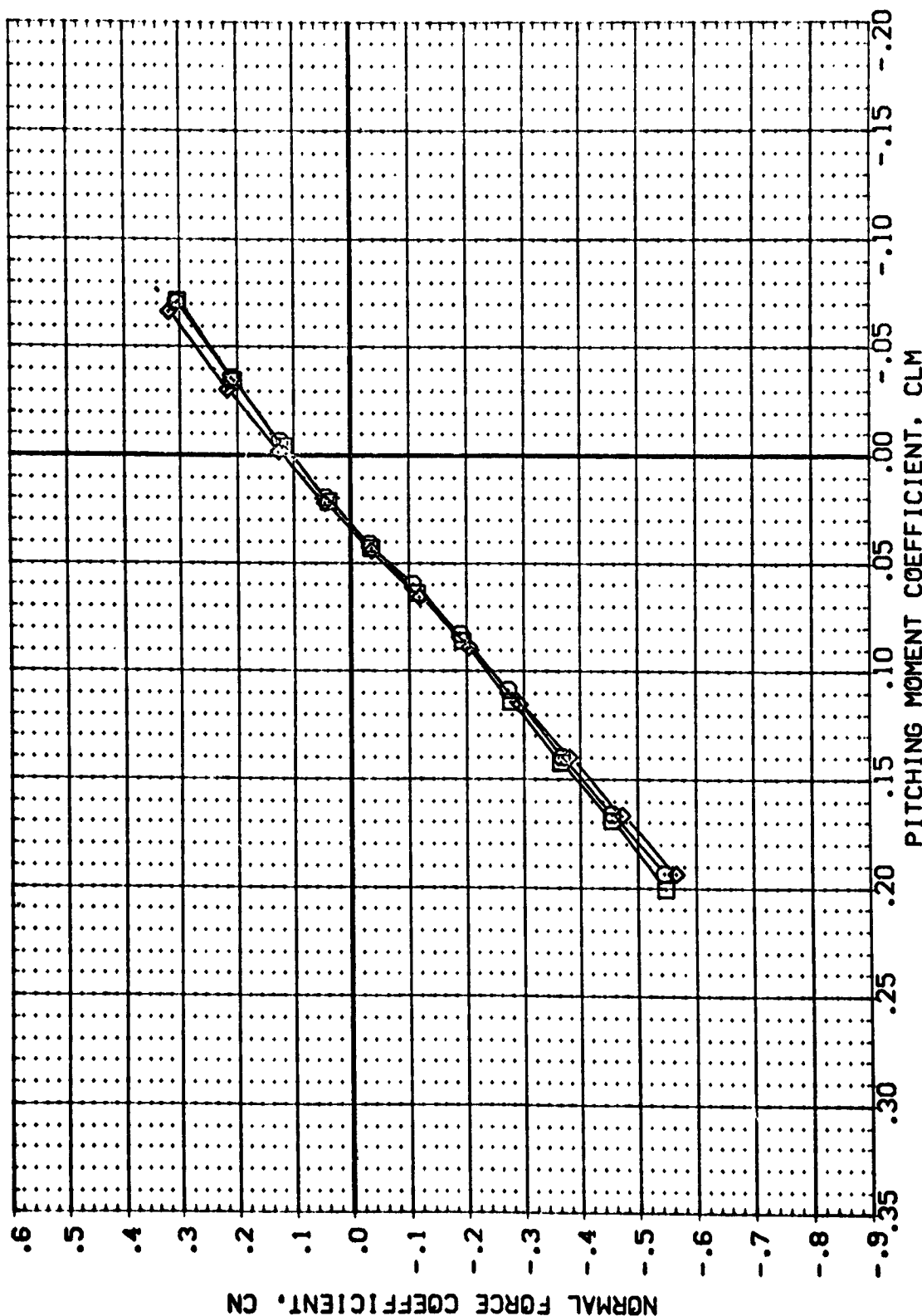
(C)MACH = 2.86

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (M05007) LRC UPVT 1056/1073 1M2A/B
 (M05014) LRC UPVT 1056/1073 1M2A/B
 (M05016) LRC UPVT 1056/1073 1M2A/B

TIPISIP201
 T4P6SIP201
 T2P4SIP201

BETA RUDDER
 .000 .000
 .000 .000
 .000 .000

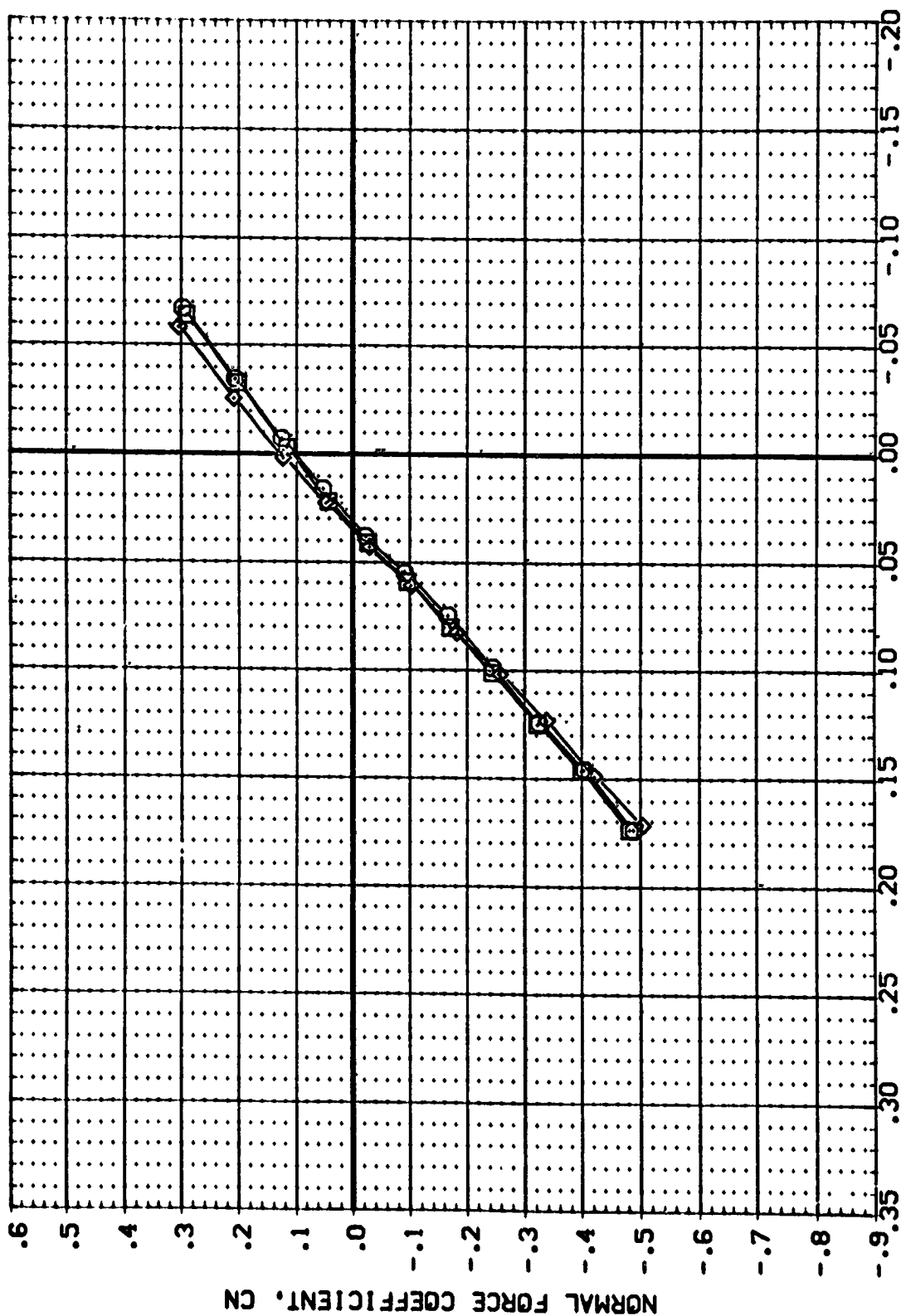
REFERENCE INFORMATION
 SREF 2690.0000 50 FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05007)	LRC LPVT 1056/1073 I42A/B	.000	.000	SREF 2690.0000 50. FT.
(H05014)	LRC LPVT 1056/1073 I42A/B	.000	.000	LREF 1290.3000 INCHES
(H05016)	LRC LPVT 1056/1073 I42A/B	.000	.000	BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



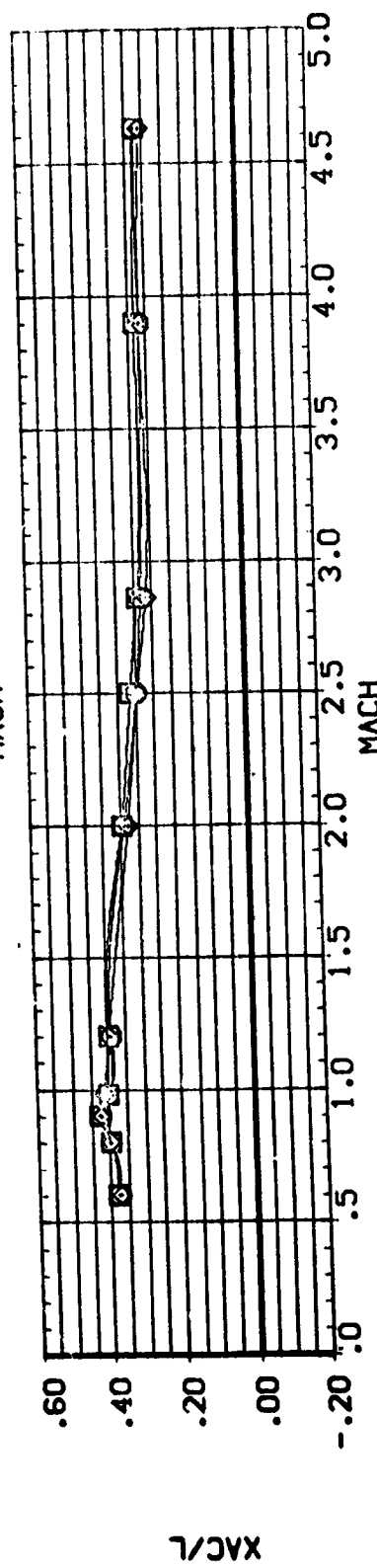
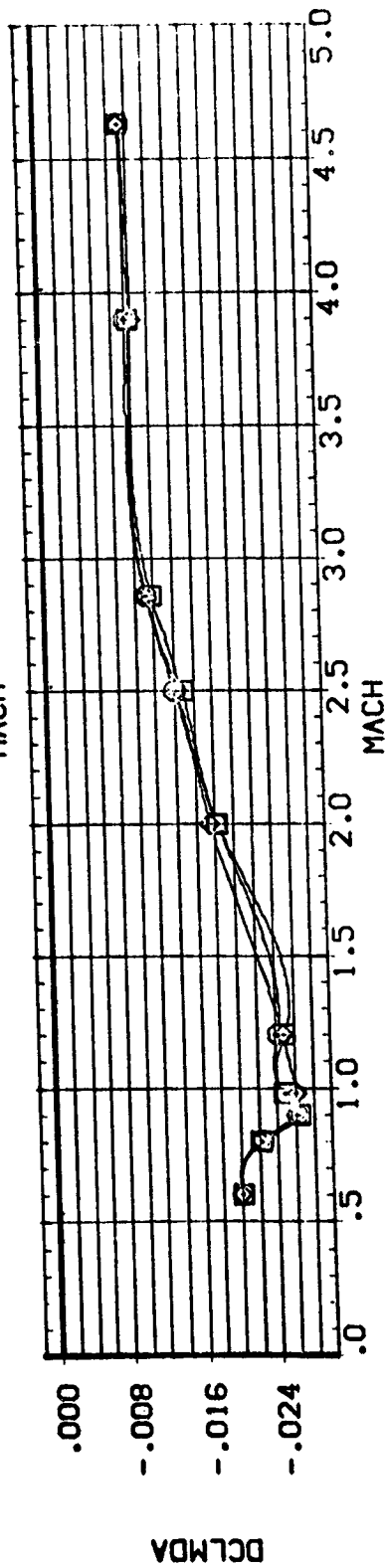
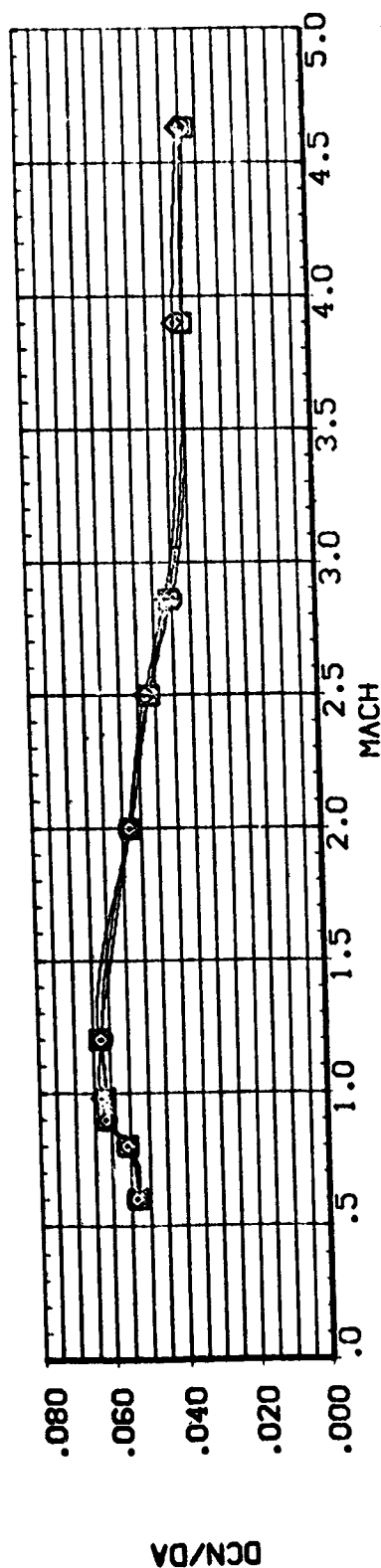
EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 .000 .000
 .000 .000
 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (D06007) LRC 8 TPT 667 IM1 TIPISIP201
 (D06014) LRC 8 TPT 667 IM1 14P6SIP201
 (D06016) LRC 8 TPT 667 IM1 12P4SIP201



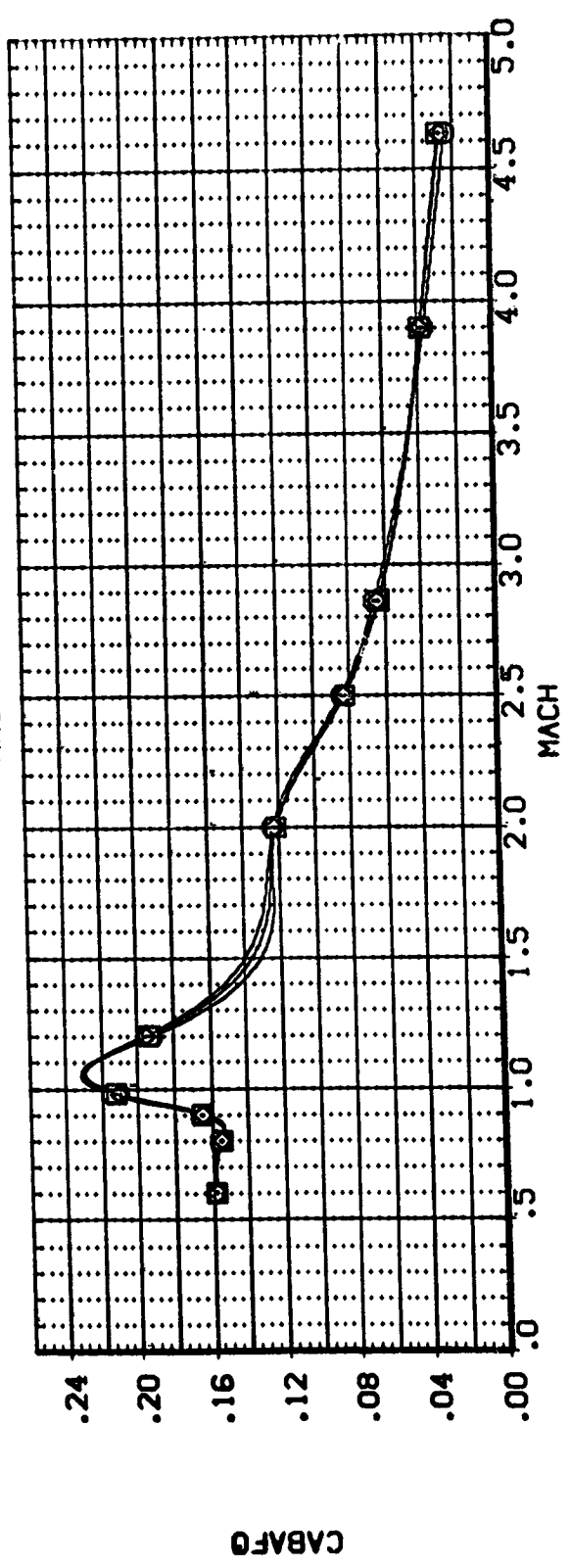
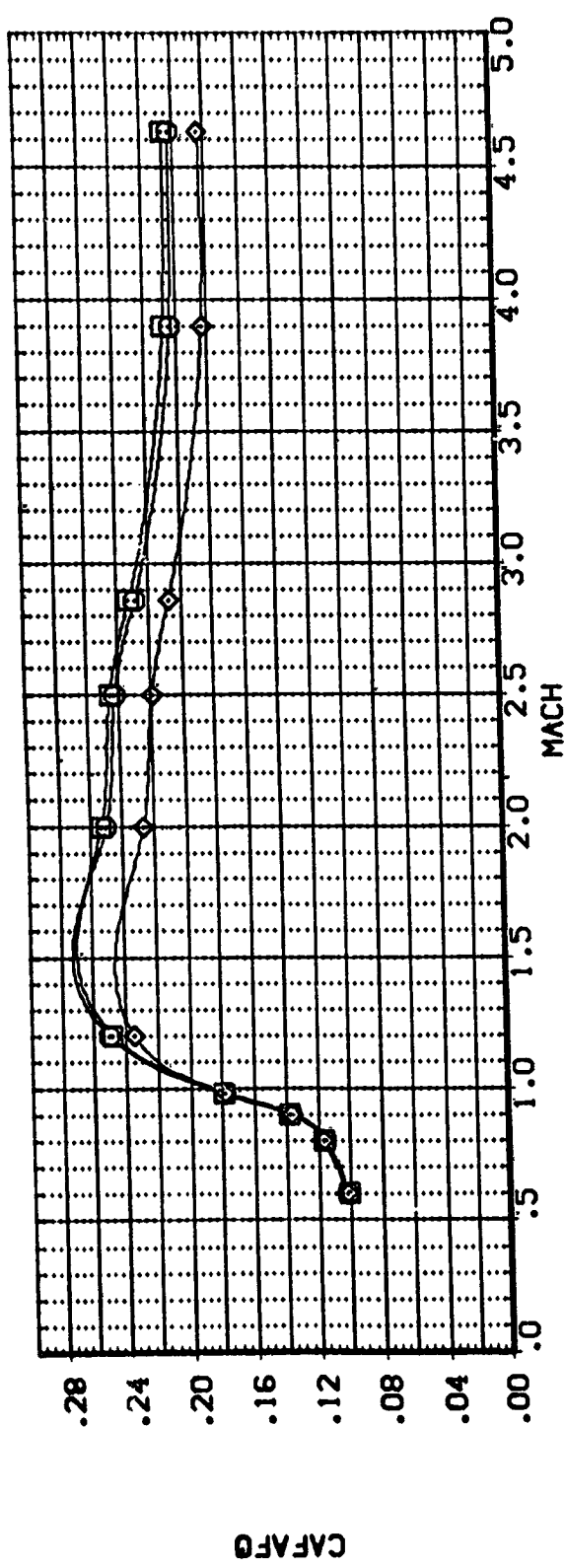
EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(E06007) LRC 8 TPT 667 1A41 TIP15IP201
(E06014) LRC 8 TPT 667 1A41 T4P65IP201
(E06016) LRC 8 TPT 667 1A41 T2P45IP201

BETA RUDDER
.000 .000
.000 .000
.000 .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0157

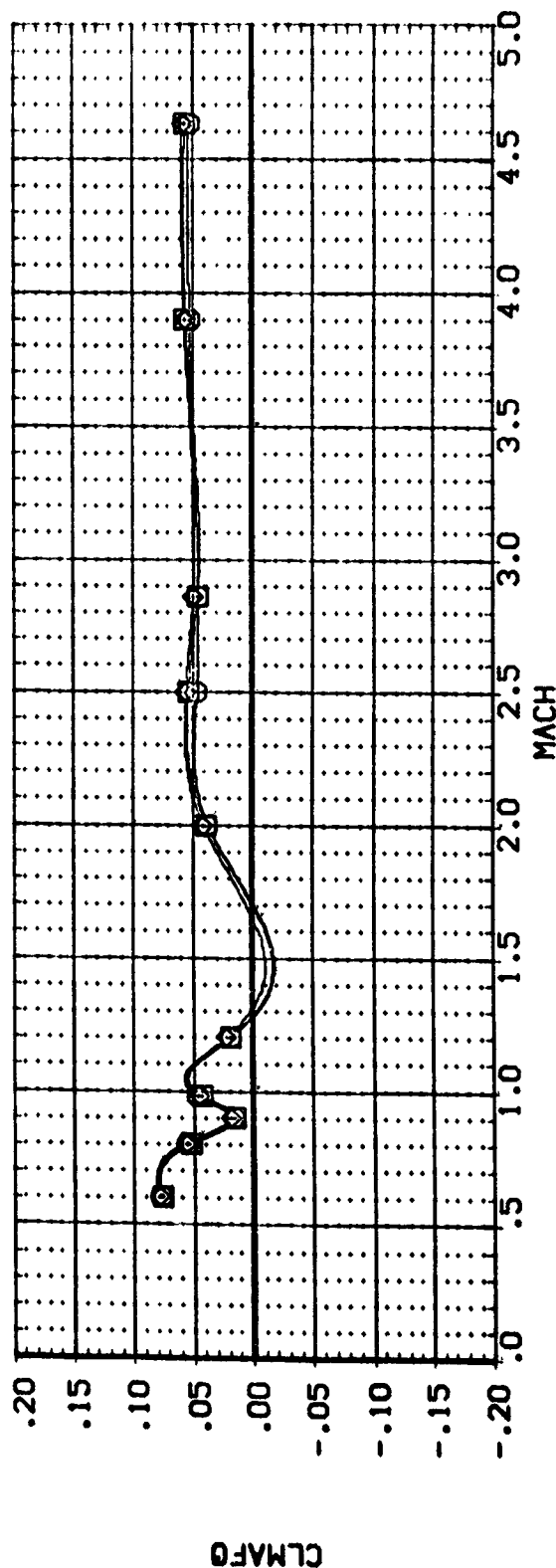
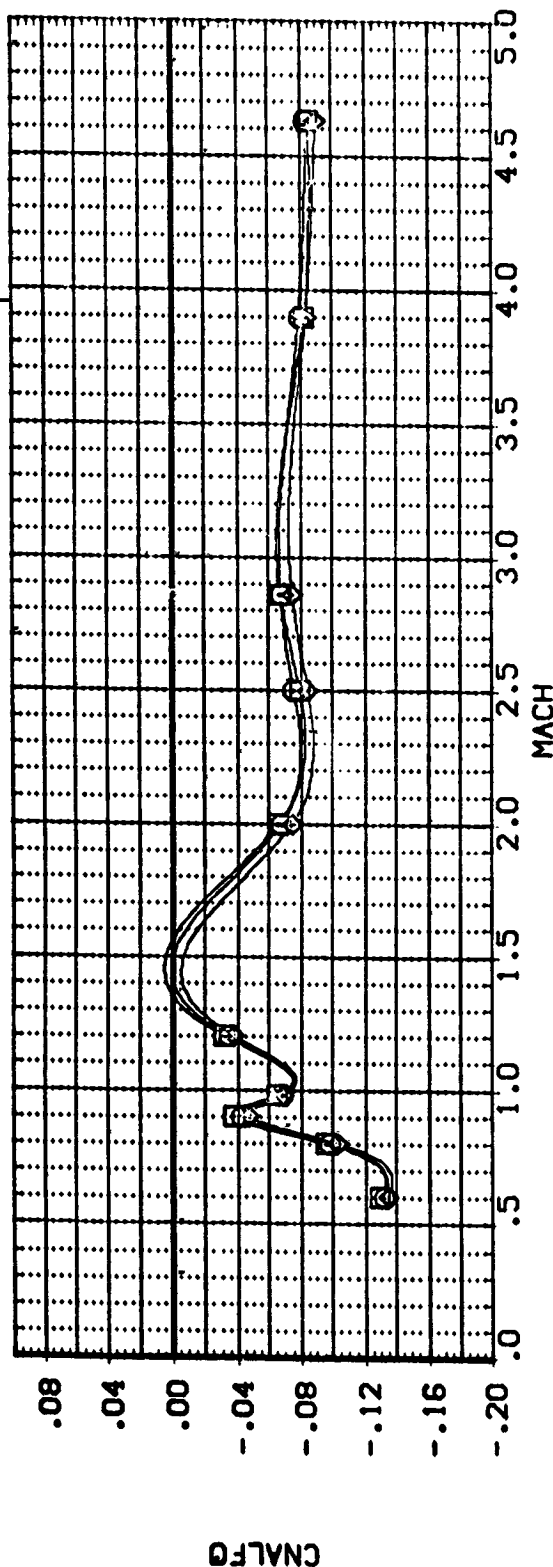


EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E06007) LRC 8 TPT 667 I441 T1P1SIP201
 (E06014) LRC 8 TPT 667 I441 T4P6SIP201
 (E06016) LRC 8 TPT 667 I441 T2P4SIP201

BETA RUDDER
 .000 .000
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XPRP 976.0000 INCHES
 YPRP 400.0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION

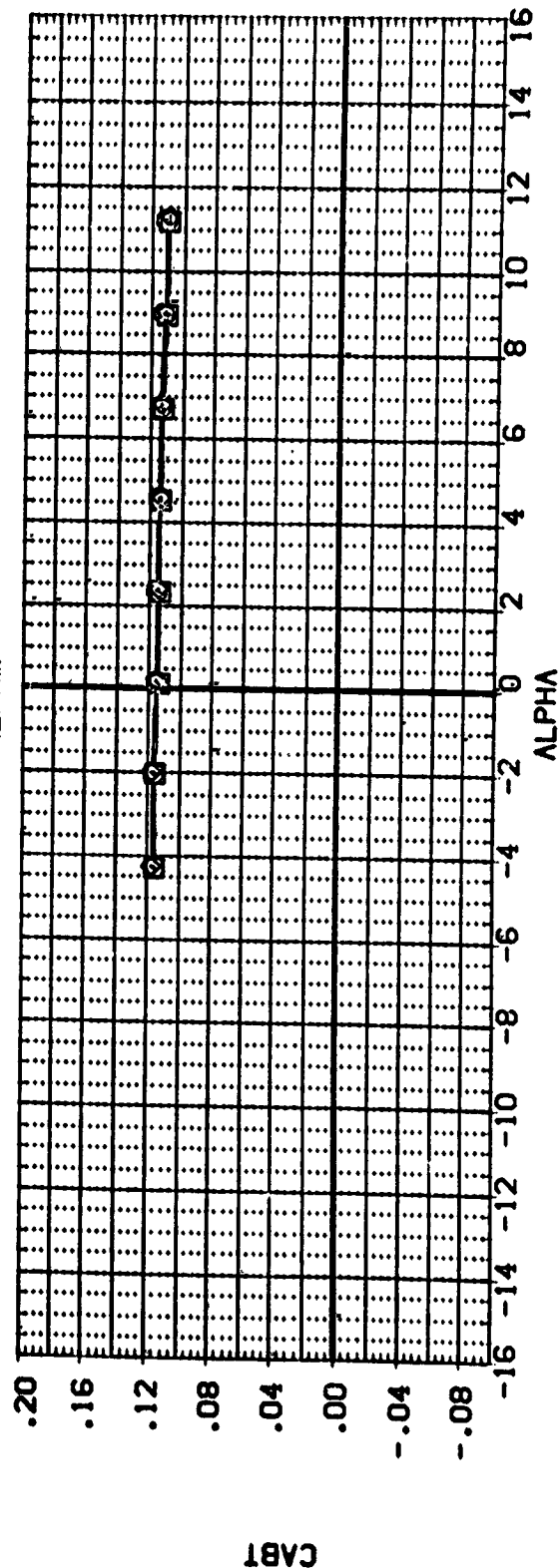
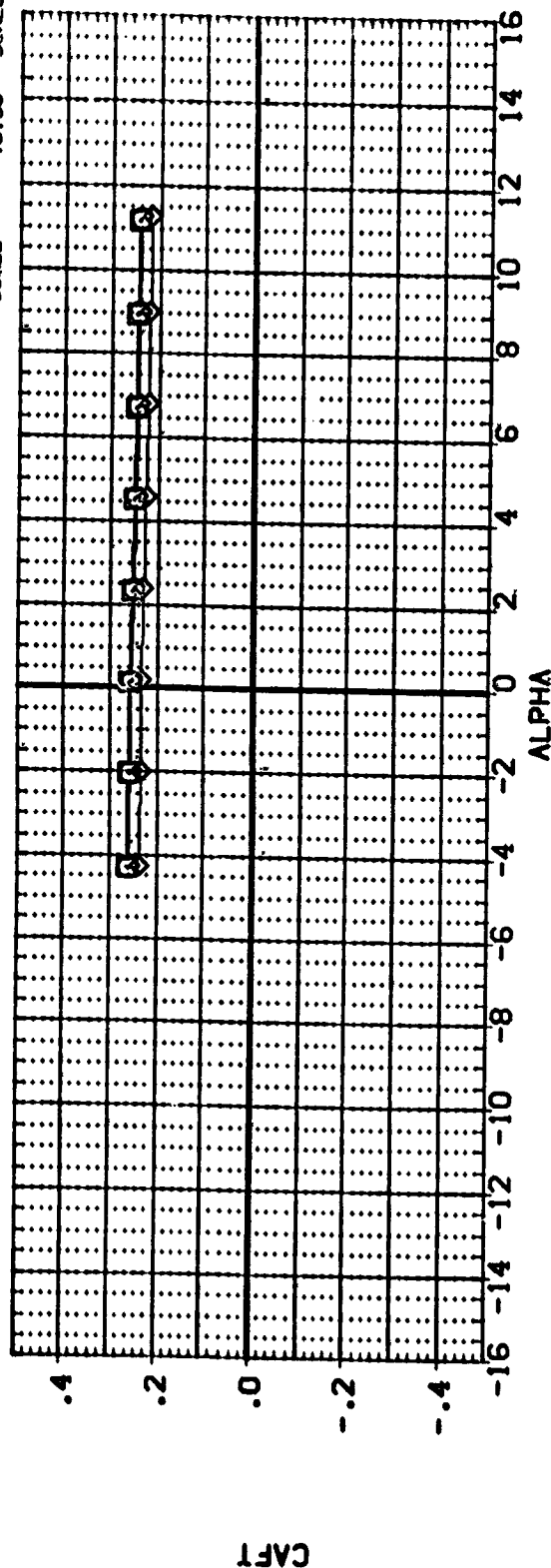
(H05008)
(D06015)
(D06017)

LRC UPWT 1056/1073 1A42A/B
LRC UPWT 1056/1073 1A42A/B
LRC UPWT 1056/1073 1A42A/B

TIPISIP201
T4P6SIP201
T2P4SIP201

BETA RUDDER
5.000 .000
5.000 .000
5.000 .000

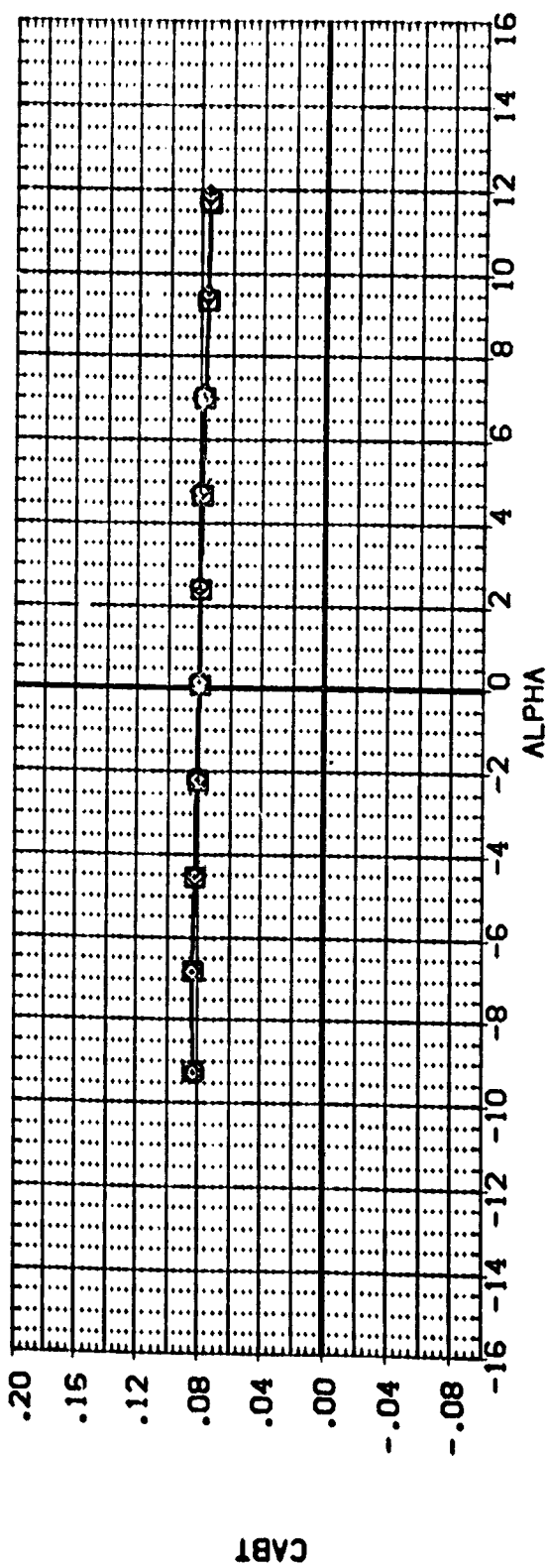
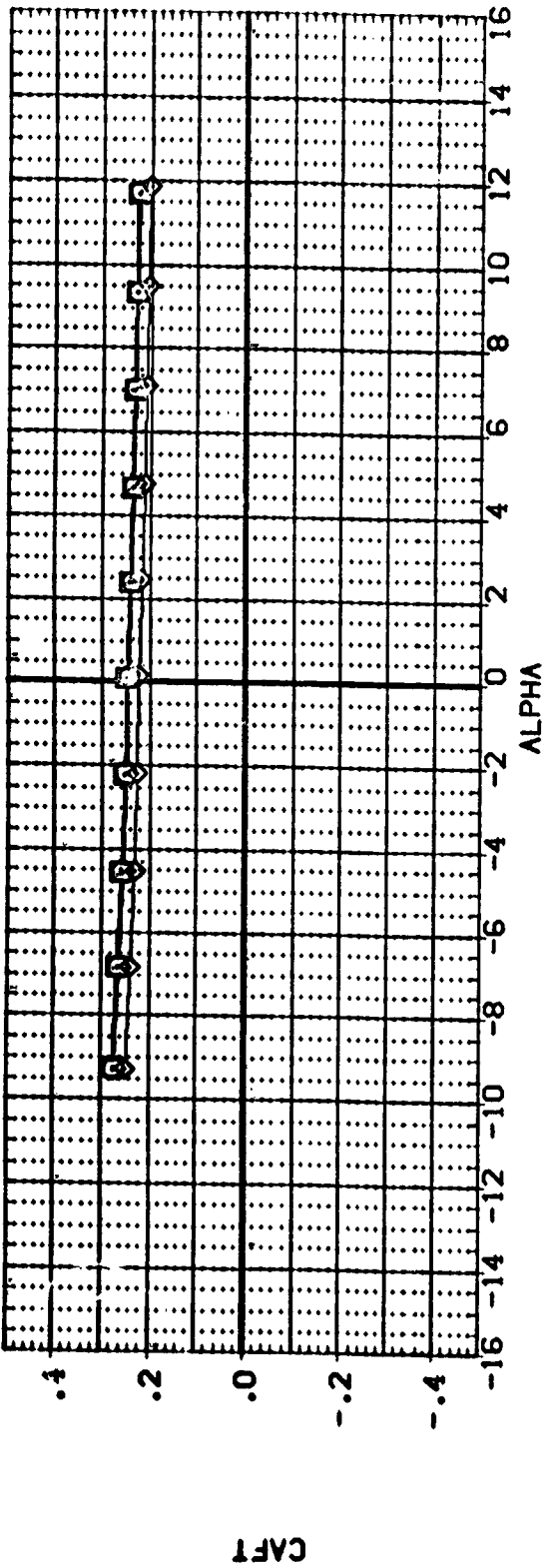
REFERENCE INFORMATION
SREF 2690.0000 50 FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XTRP 976.0000 INCHES
YTRP .0000 INCHES
ZTRP 400.0000 INCHES
SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

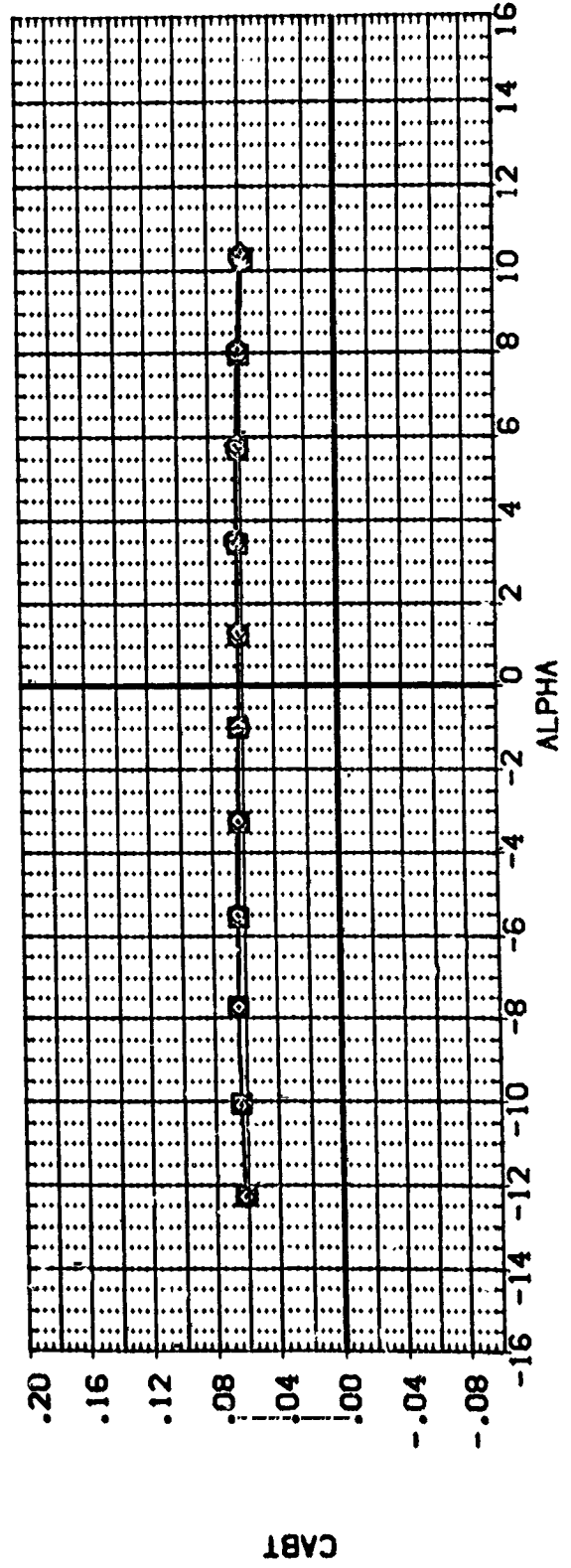
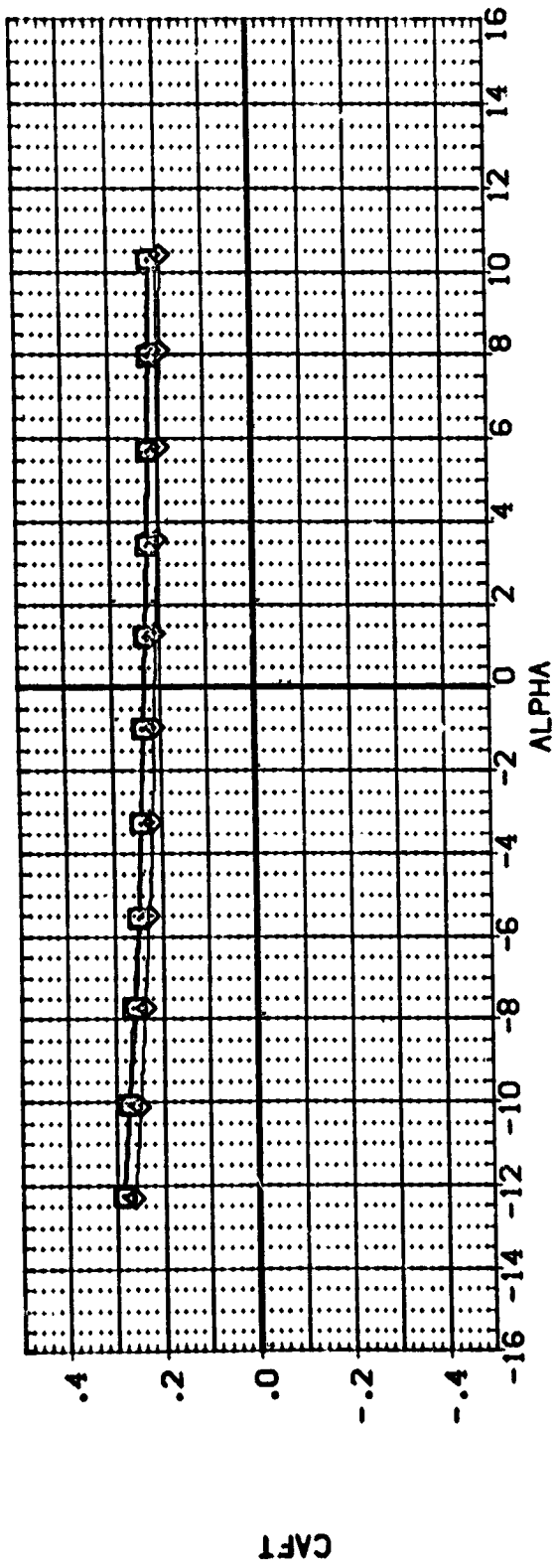
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(N06008)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SO.FT.
(D06015)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
(D06017)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	BREF 1290.3000 INCHES
				YMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05008)	LRC LPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SQ.FT.
(D05015)	LRC LPVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
(D05017)	LRC LPVT 1056/1073 1A42A/B	5.000	.000	BREF 1290.3000 INCHES
				YMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(CJ)MACH = 2.86

DATA SET SYMBOL: (005000) (005015) (005017)

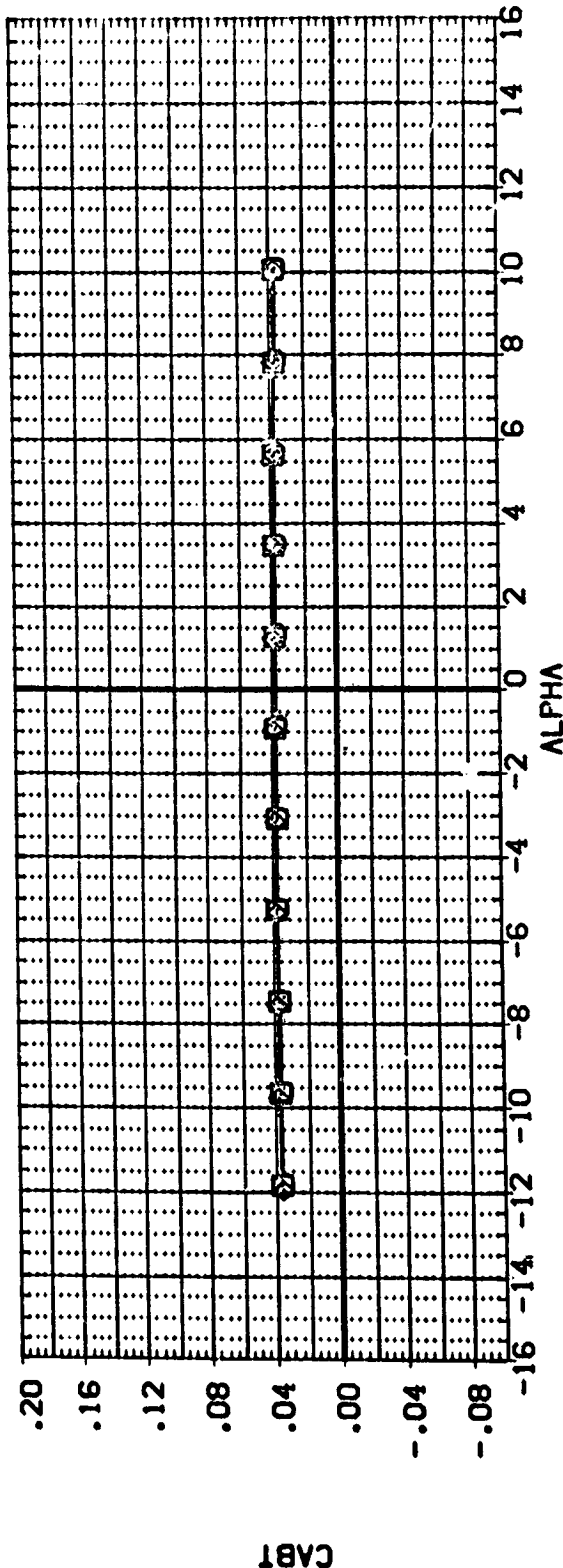
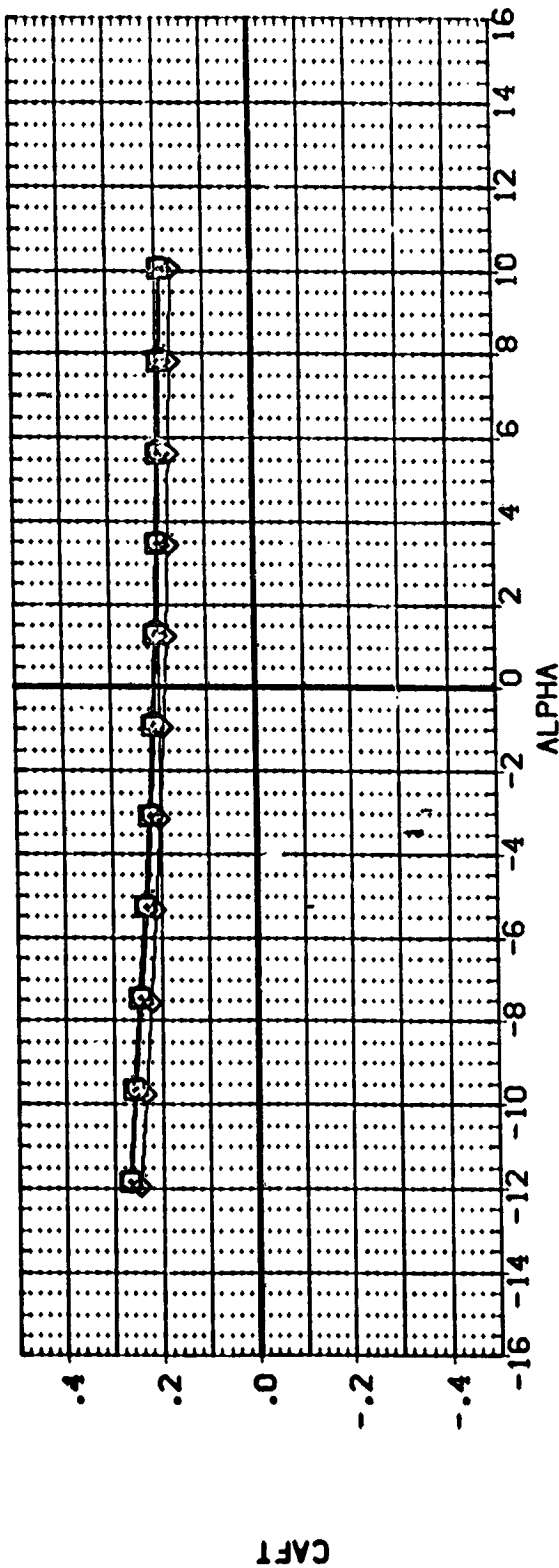
CONFIGURATION DESCRIPTION:
 LRC UPWT 1056/1073 IM42A/B
 LRC LPWT 1056/1073 IM42A/B
 LRC UPWT 1056/1073 IM42A/B

TIP: ISIP201
 TAP: PSIP201
 TAP: ASIP201

BETA: 5.000
 5.000
 5.000

RUDDER: .000
 .000
 .000

REFERENCE INFORMATION:
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



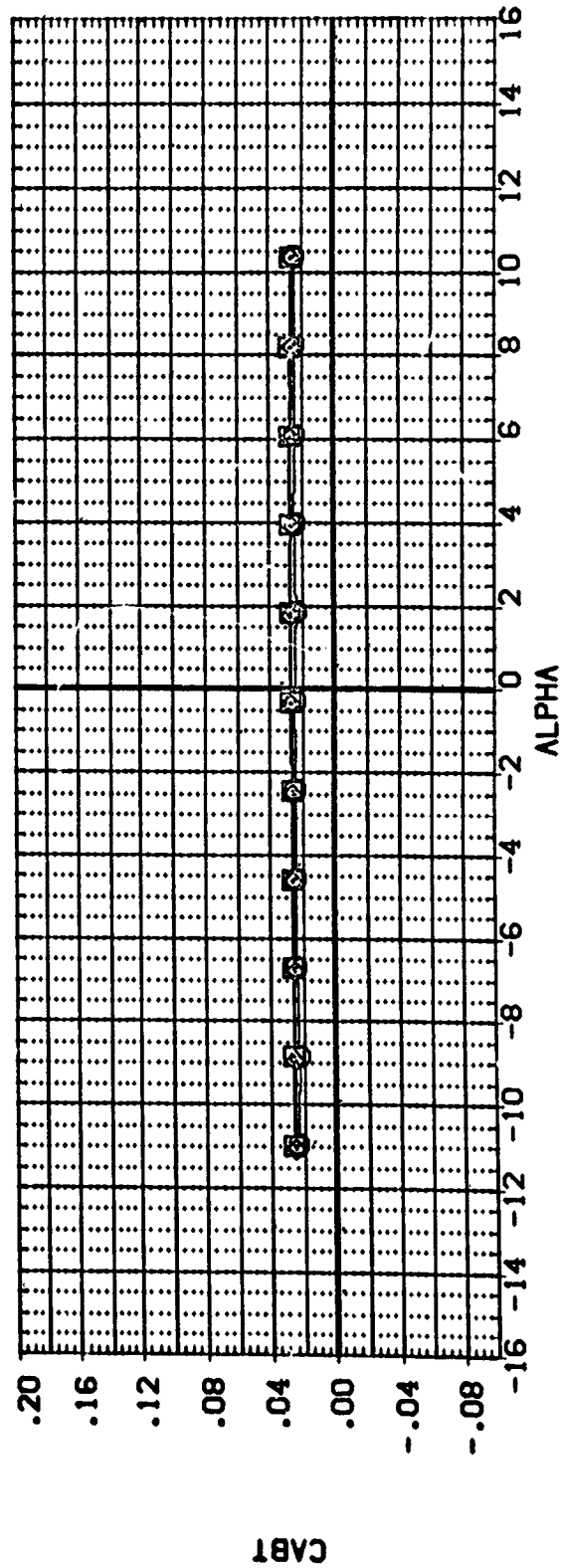
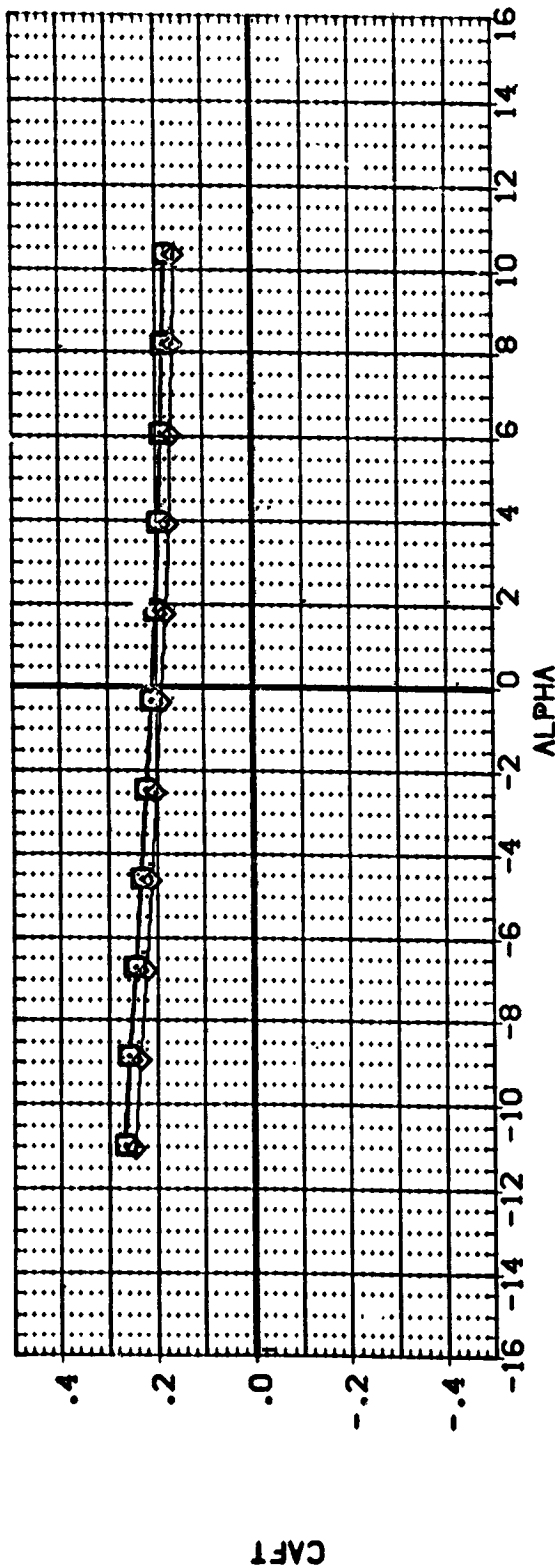
EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

PAGE 100

1.7

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP ISIP201	BETA	RUDDER	REFERENCE INFORMATION
(M06008)	LRC UPWT 1056/1073 1A42A/B	TIP ISIP201	5.000	.000	SREF 2690.0000 SQ.FT.
(D06015)	LRC UPWT 1056/1073 1A42A/B	T4P6SIP201	5.000	.000	LREF 1290.3000 INCHES
(D06017)	LRC UPWT 1056/1073 1A42A/B	T2P4SIP201	5.000	.000	BREF 1290.3000 INCHES
					YMRP 976.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

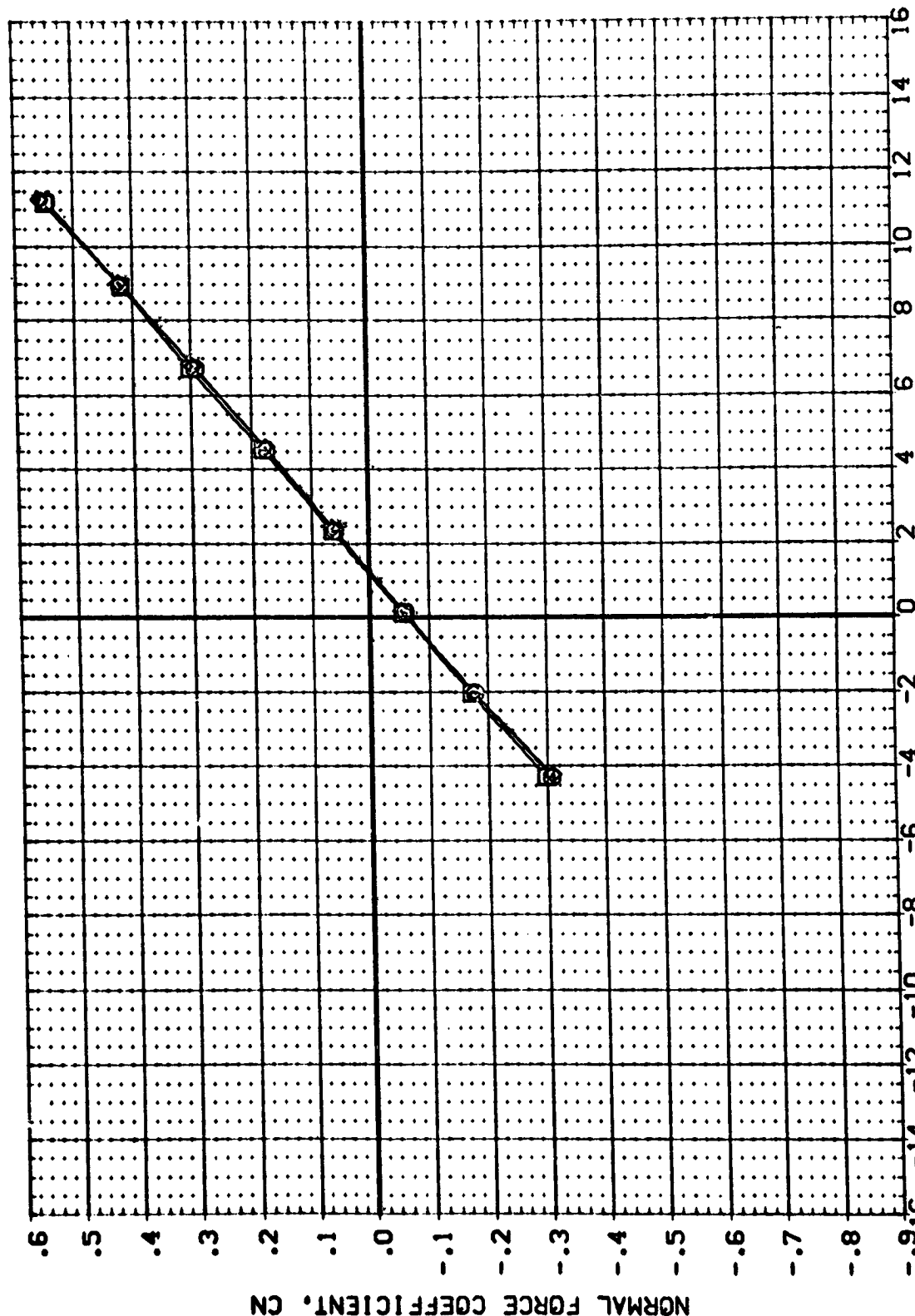
DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA RUDDER REFERENCE INFORMATION

1405008)
1405015)
1405017)

LRC UPVT 1056/1073 1A42AVB
LRC UPVT 1056/1073 1A42AVB
LRC UPVT 1056/1073 1A42AVB

TIPISIP201
T4PGSIP201
T2P4SIP201

SREF 2690.0000 SQ.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150

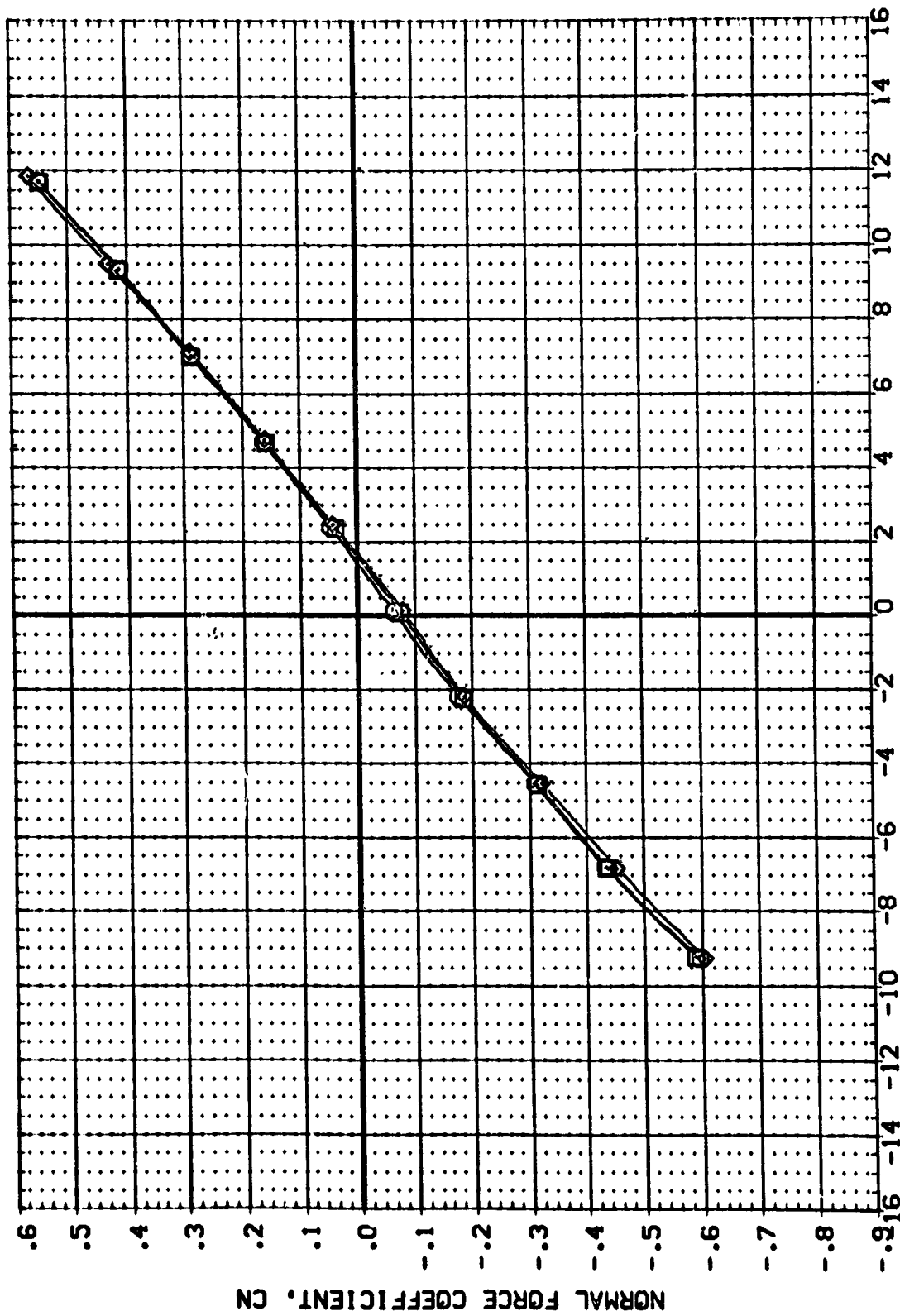


ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP1SIP201 T4P6SIP201 T2P4SIP201	BETA	RUDDER	REFERENCE INFORMATION
(H06008)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	SREF 2690.0000 SO.FT.
(D06015)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	LREF 1290.3000 INCHES
(D06017)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	BREF 1290.3000 INCHES
					XMRP 976.0000 INCHES
					YMRP .0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

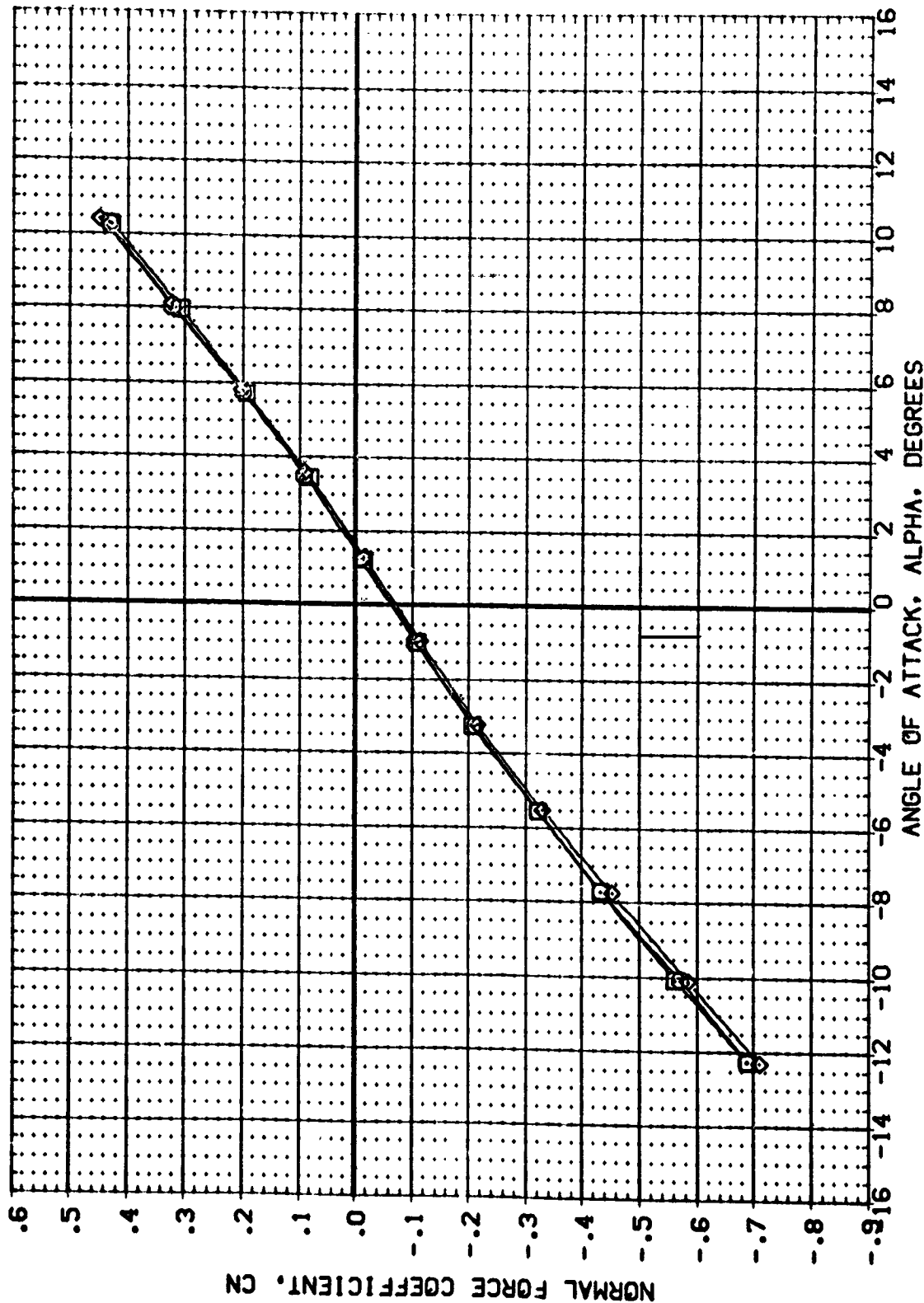
(B)MACH = 2.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H05008) LRC LPVT 1056/1073 1A42A/B
 (D06015) LRC LPVT 1056/1073 1A42A/B
 (D06017) LRC LPVT 1056/1073 1A42A/B

TIPISIP201
 T4P6SIP201
 T2P4SIP201

BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000

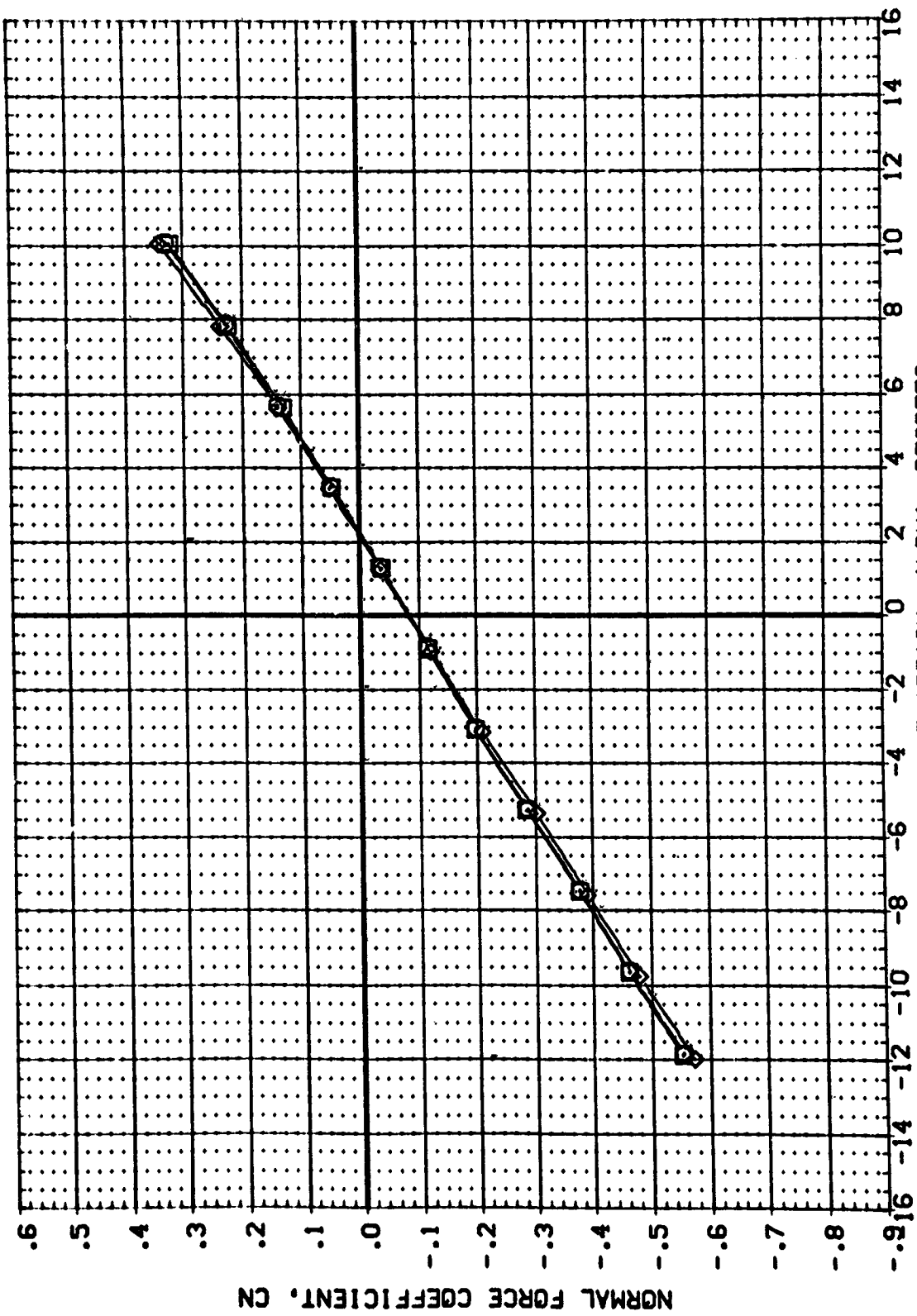
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(C.)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIPISIP201 T4P6SIP201 T2P4SIP201	BETA	RUDDER	REFERENCE INFORMATION
(H05008)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	SREF 2690.0000 SO.FT.
(D05015)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	LREF 1290.3000 INCHES
(D05017)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	BREF 1290.3000 INCHES
					XMRP 976.0000 INCHES
					YMRP 400.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL: (M05008) (D05015) (D05017)

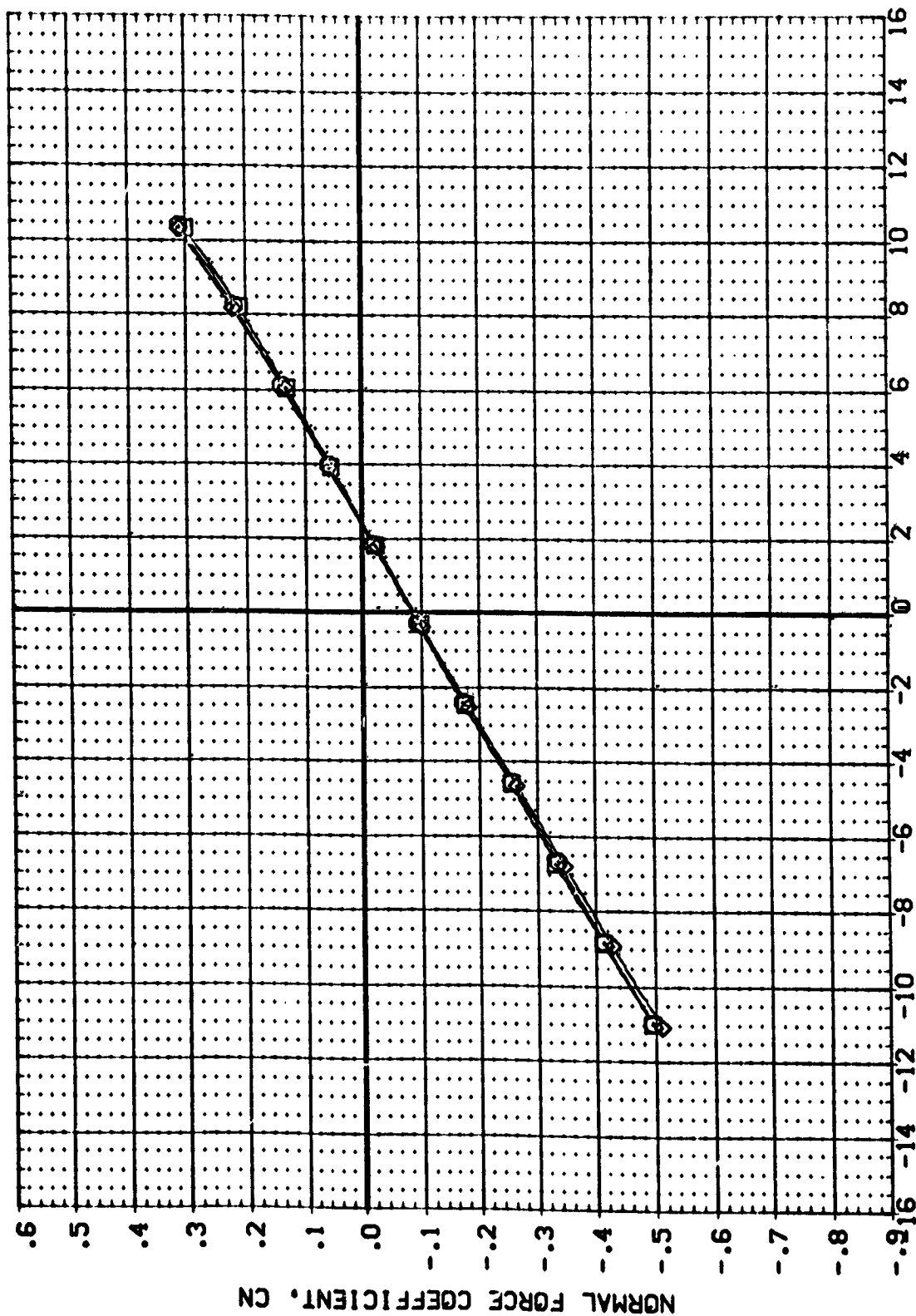
CONFIGURATION DESCRIPTION:
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B

TIPISIP201
 T4P6SIP201
 T2P4SIP201

BETA: 5.000
 5.000
 5.000

RUDDER: .000
 .000
 .000

REFERENCE INFORMATION:
 SREF 2690.0000 50. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

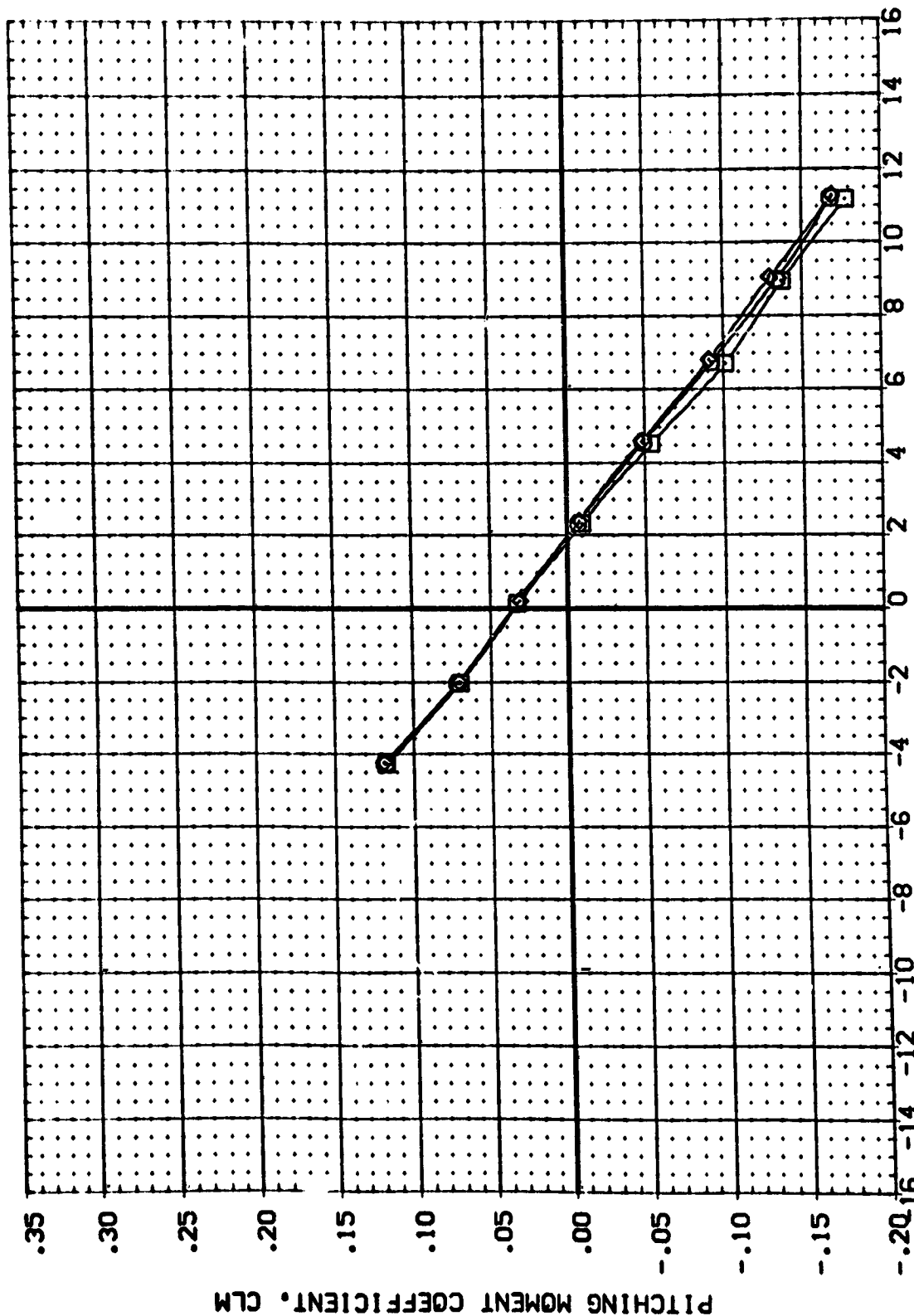
REFERENCE INFORMATION
 SREF 2690.0000 50. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA
 5.000
 5.000
 5.000

TIPISIP201
 T4P6SIP201
 T2P4SIP201

CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 1A12A/B
 LRC UPVT 1056/1073 1A12A/B
 LRC UPVT 1056/1073 1A12A/B

DATA SET SYMBOL
 (M06008)
 (D06015)
 (D06017)



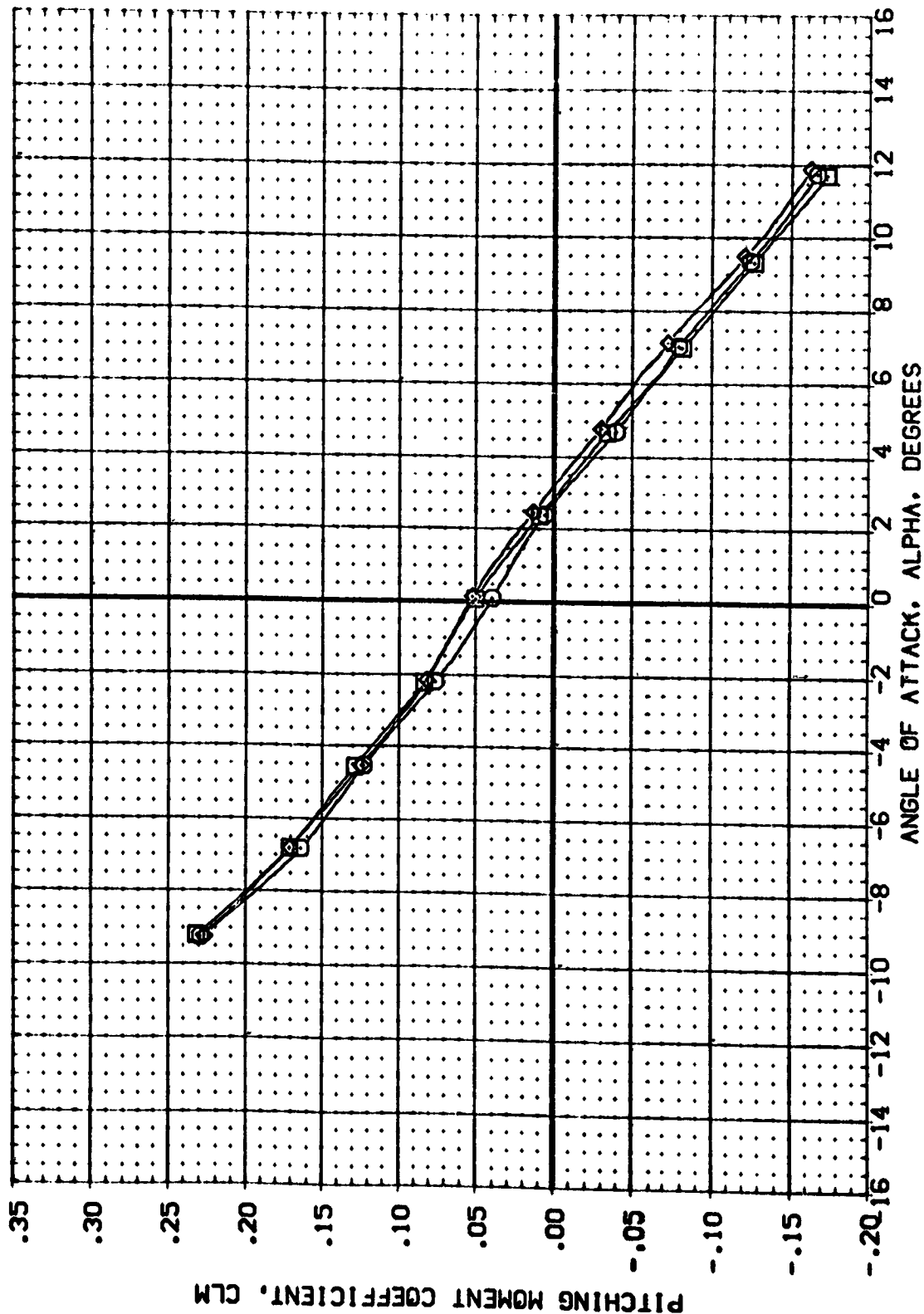
EFFECT OF FYTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (1405008) LRC UPVT 1056/1073 1A42A/B
 (1006015) LRC UPVT 1056/1073 1A42A/B
 (1006017) LRC UPVT 1056/1073 1A42A/B

TIP(SIP20)
 14P6SIP20
 2P4SIP20

BETA RUBBER
 5.000 .000
 5.000 .000
 5.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

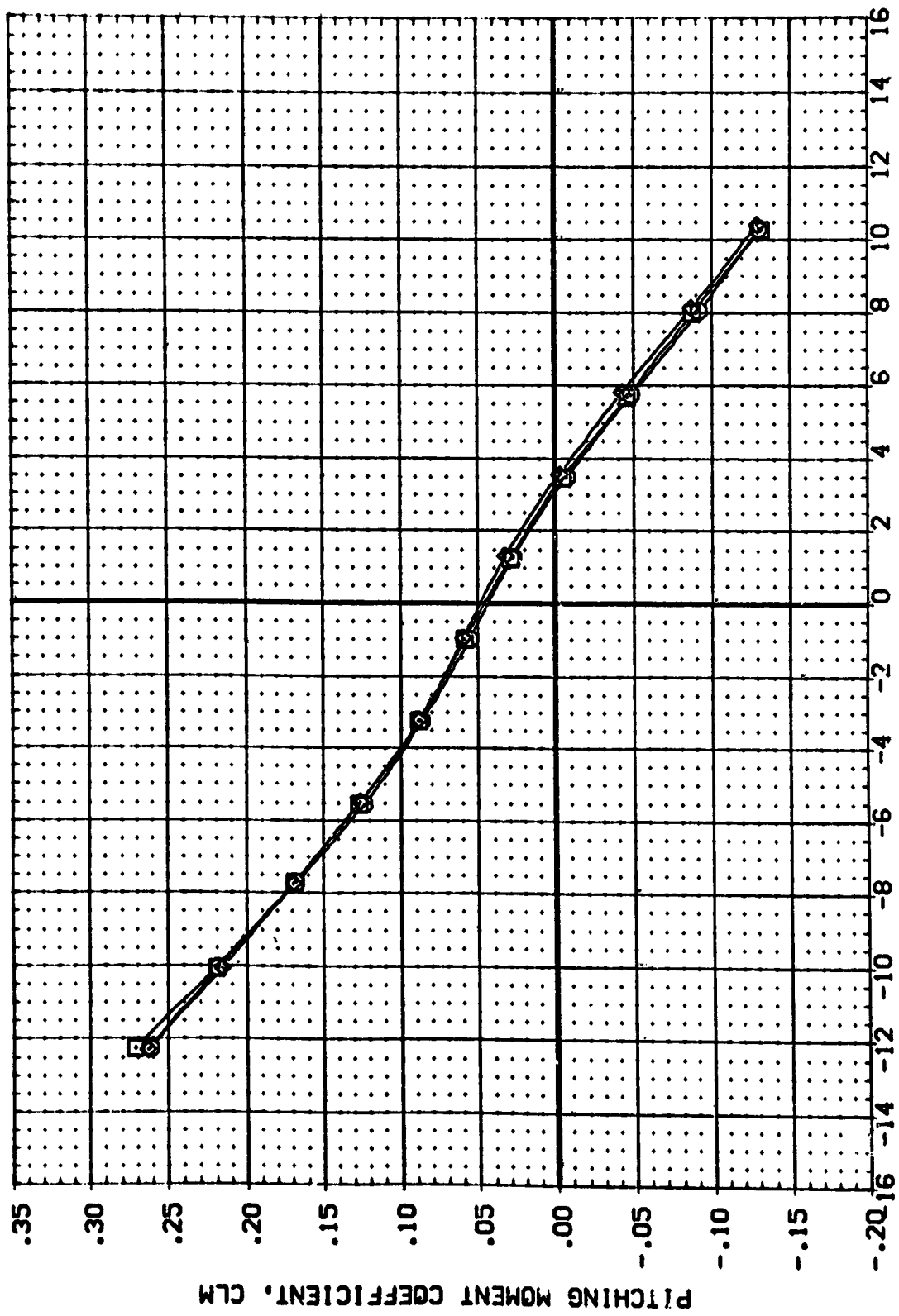


EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP ISIP201	BETA	RUDER	REFERENCE INFORMATION
(M05008)	LRC UPVT 1056/1073 1A42A/B	T4P6SIP201	5.000	.000	SREF 2690.0000 SQ.FT.
(D06015)	LRC UPVT 1056/1073 1A42A/B	T2P4SIP201	5.000	.000	LREF 1290.3000 INCHES
(D06017)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	BREF 1290.3000 INCHES
					YPRP 976.0000 INCHES
					ZPRP 400.0000 INCHES
					SCALE .0150 INCHES



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(CJ MACH = 2.86)

DATA SET SYMBOL: (1406008), (1406015), (1406017)

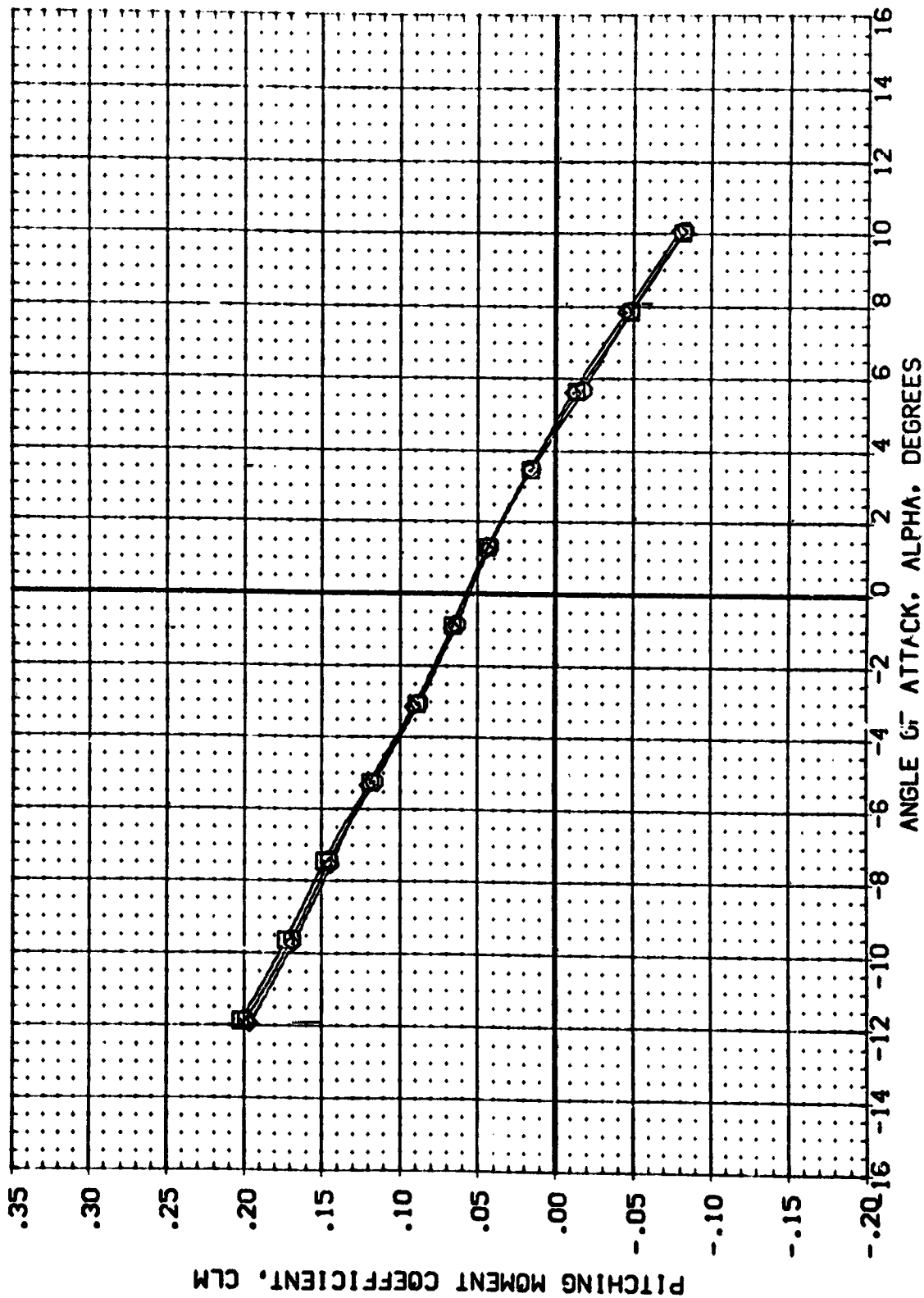
CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42A/B, LRC UPVT 1056/1073 1A42A/B, LRC UPVT 1056/1073 1A42A/B

TIP/SLIP/201: TIP/SLIP/201, TIP/SLIP/201, TIP/SLIP/201

BETA: 5.000, 5.000, 5.000

RUDDER: .000, .000, .000

REFERENCE INFORMATION: SREF 2690.0000 SQ. FT., LREF 1290.3000 INCHES, BREF 1290.3000 INCHES, XMRP 976.0000 INCHES, YMRP .0000 INCHES, ZMRP 400.0000 INCHES, SCALE .0150

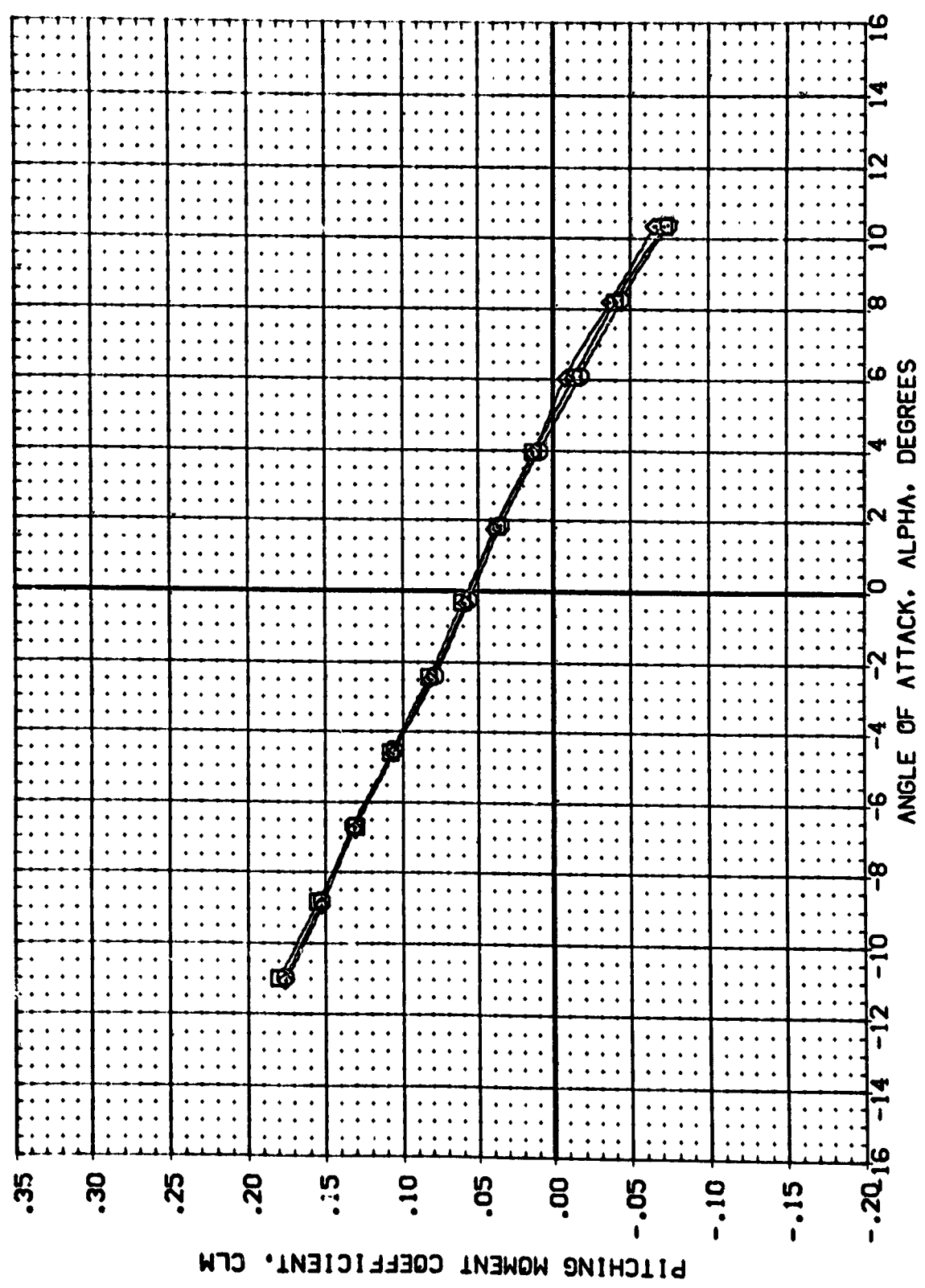


EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(0)MACH = 3.90

PAGE 110

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIPISIP201	BETA	RUDDER	REFERENCE INFORMATION
(H06008)	LRC JPVT 1056/1073 1A42A/B	T4P6SIP201	5.000	.000	SREF 2690.0000 SO.FT.
(H06015)	LRC JPVT 1056/1073 1A42A/B	T2P4SIP201	5.000	.000	LREF 1290.3000 INCHES
(H06017)	LRC JPVT 1056/1073 1A42A/B		5.000	.000	BREF 1290.3000 INCHES
					XMRP 976.0000 INCHES
					YMRP 400.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

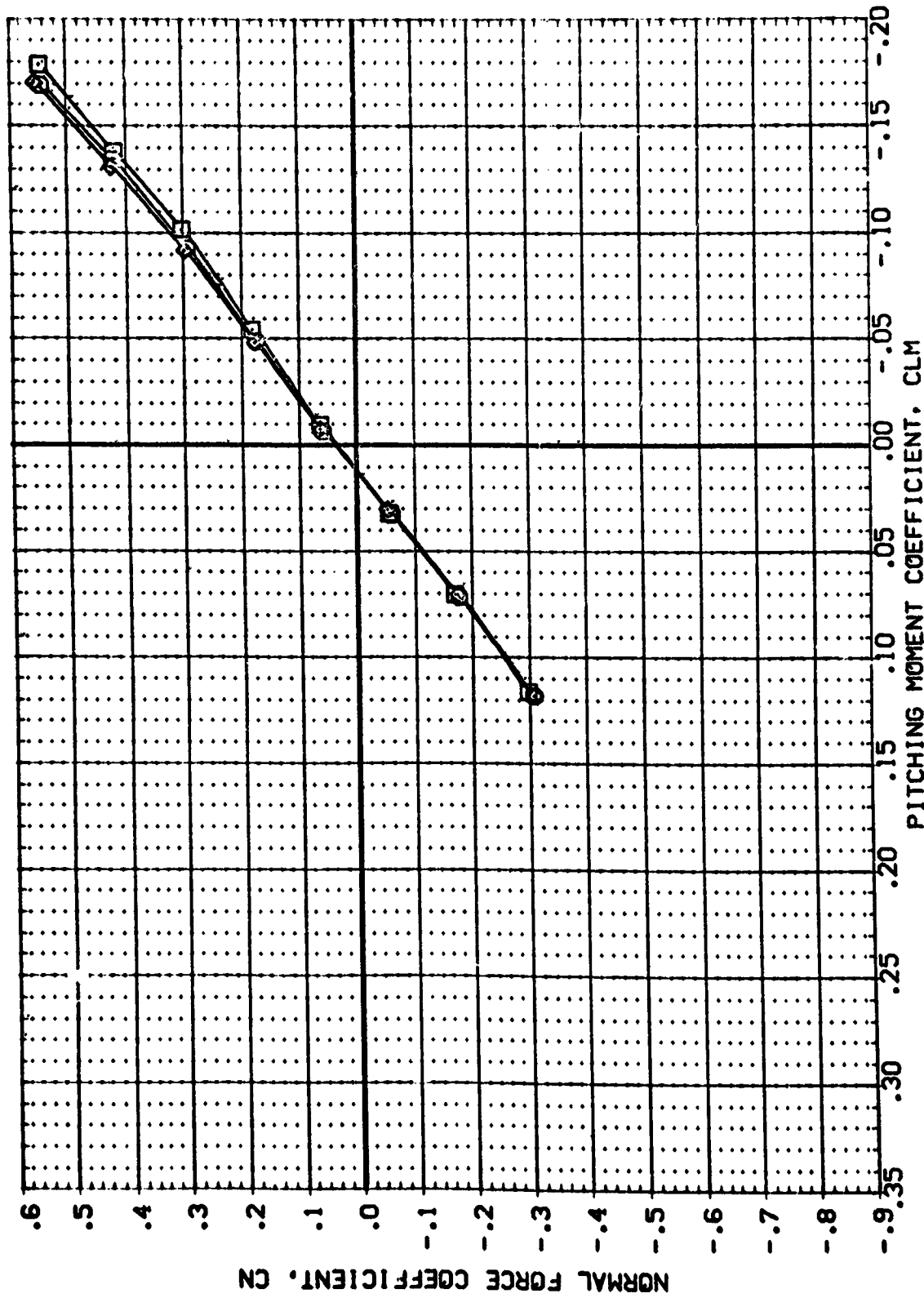
REFERENCE INFORMATION
 SREF 2690.0000 50. FT.
 LREF 1250.3000 INCHES
 BREF 1250.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

ETA RUDDER
 .000 .000
 .000 .000

TIP15IP201
 T4P65IP201
 T2P45IP201

CONFIGURATION DESCRIPTION
 LRC UPWT 1056/1073 1A42A/B
 LRC UPWT 1056/1073 1A42A/B
 LRC UPWT 1056/1073 1A42A/B

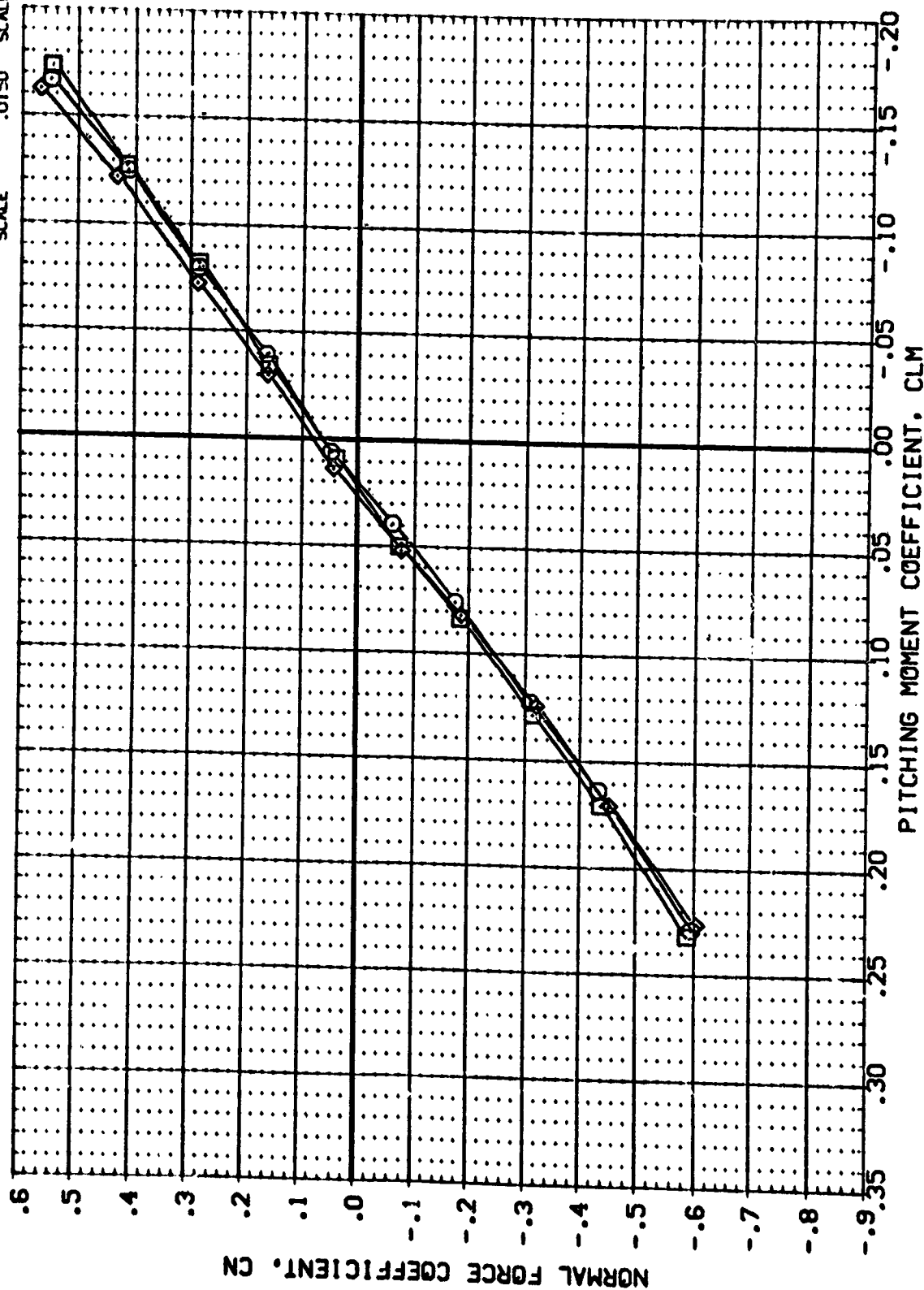
DATA SET SYMBOL
 (M06008)
 (D06015)
 (D06017)



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H06008)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SQ. FT.
(D06015)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
(D06017)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	BREF 1290.3000 INCHES
				YMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL: 1056/1073 1A2A/B
 (006015)
 (006017)

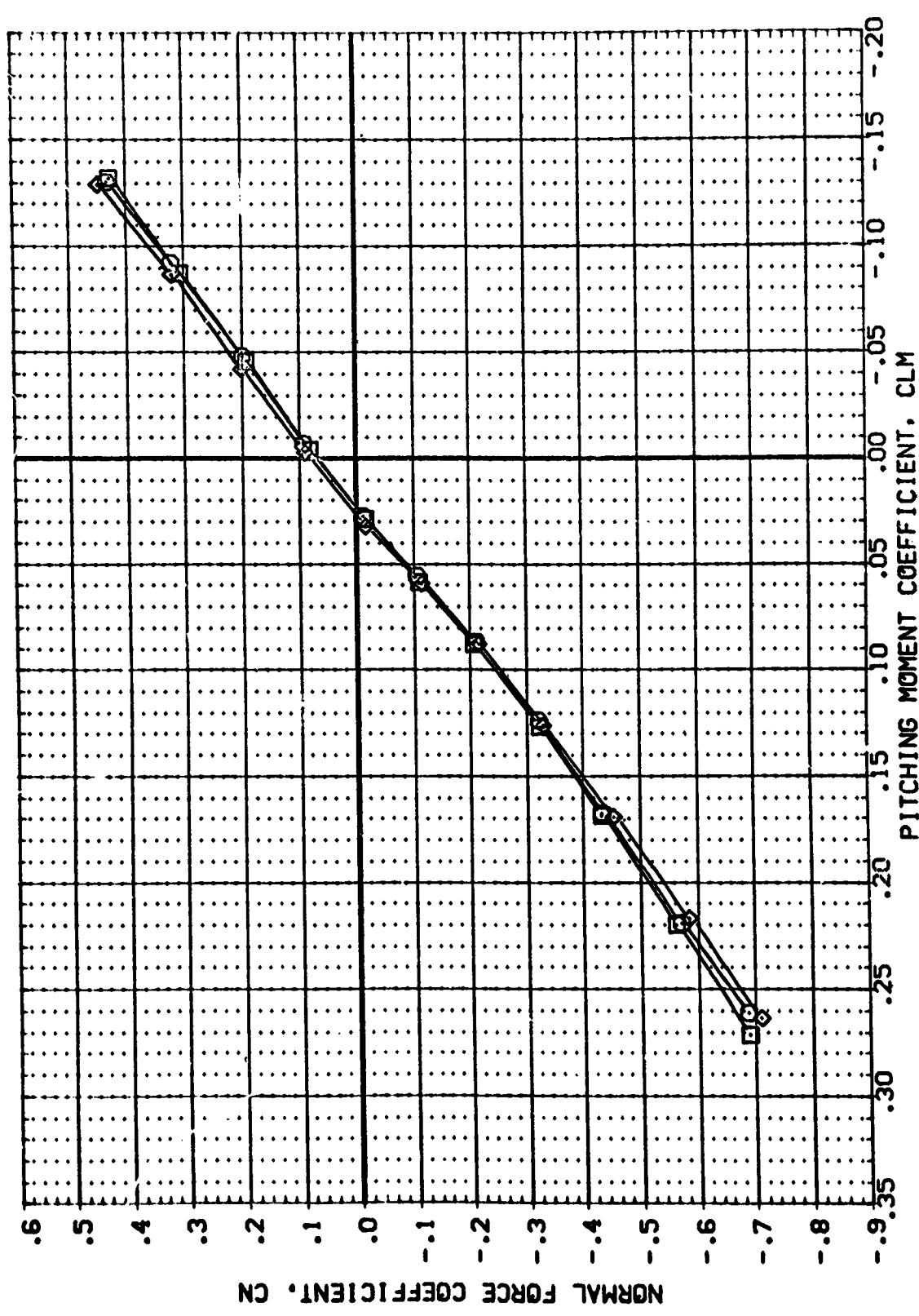
CONFIGURATION DESCRIPTION:
 LRC UPVT 1056/1073 1A2A/B
 LRC UPVT 1056/1073 1A2A/B
 LRC UPVT 1056/1073 1A2A/B

TIP ISIP201
 T4P65IP201
 T7P45IP201

BETA: 5.000
 5.000
 5.000

RUDER: .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 50. FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: .0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



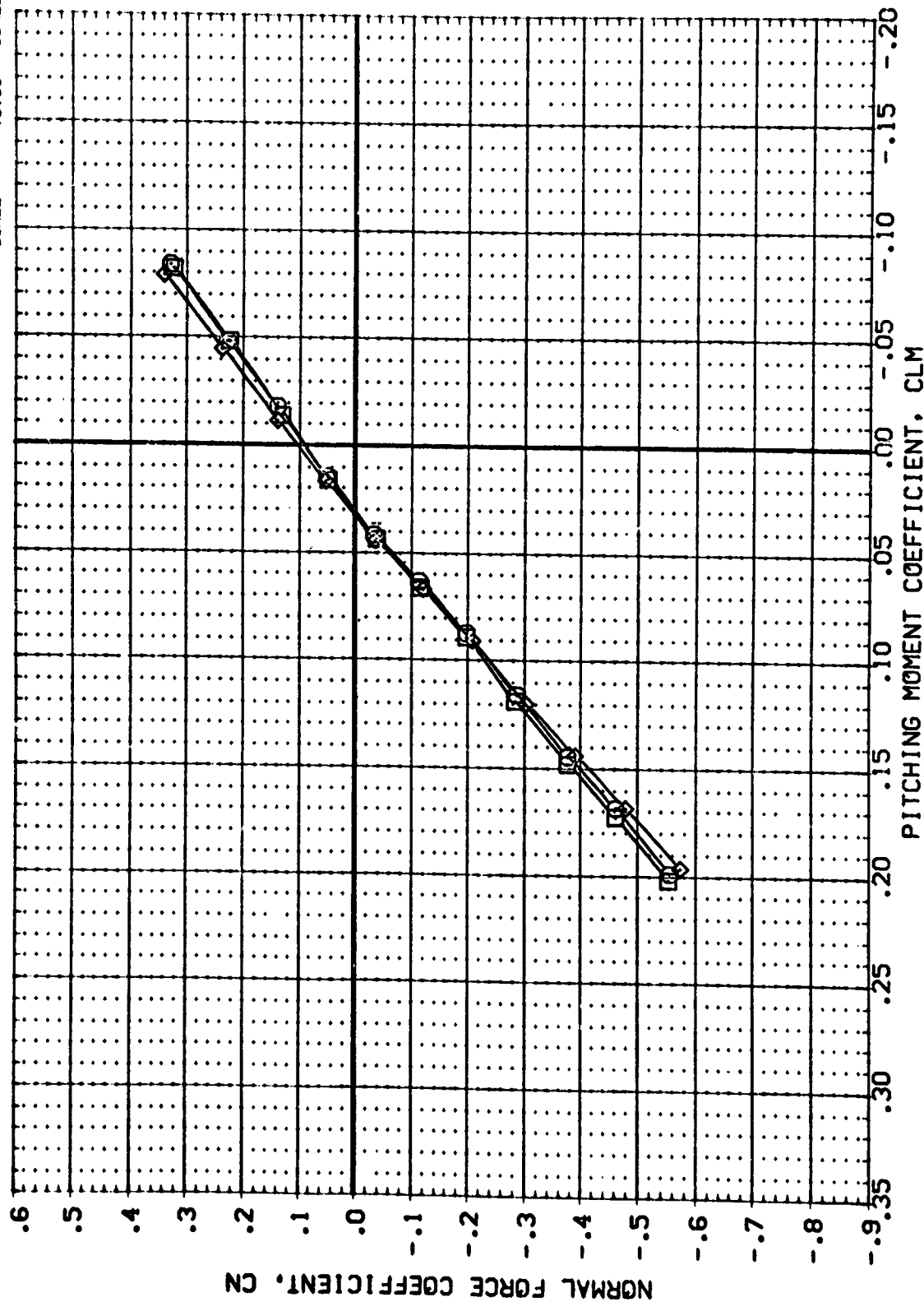
EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H06008) LRC LPVT 1056/1073 1A42A/B
 (D06015) LRC LPVT 1056/1073 1A42A/B
 (D06017) LRC LPVT 1056/1073 1A42A/B

BETA RUDDER
 5.000 .000
 5.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 50. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

(O)MACH = 3.90

DATA SET SYMBOL: (H05008)
 (D05015)
 (D05017)



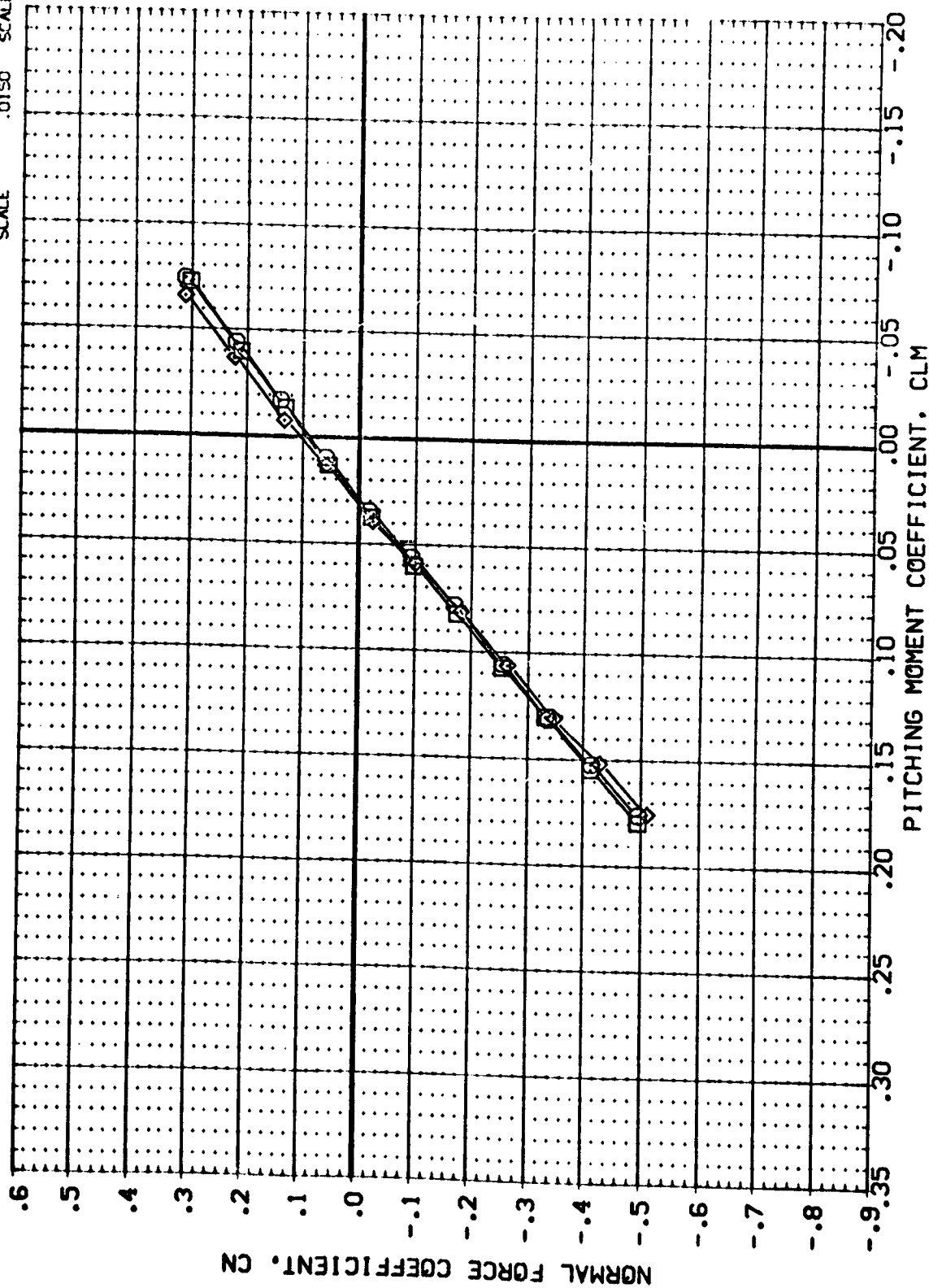
CONFIGURATION DESCRIPTION:
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B

TIP/SIP201
 T4P6SIP201
 T2P4SIP201

BETA: 5.000
 5.000
 5.000

RUDDER: .000
 .000
 .000

REFERENCE INFORMATION:
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 INCHES



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LONGITUDINAL CHARACTERISTICS

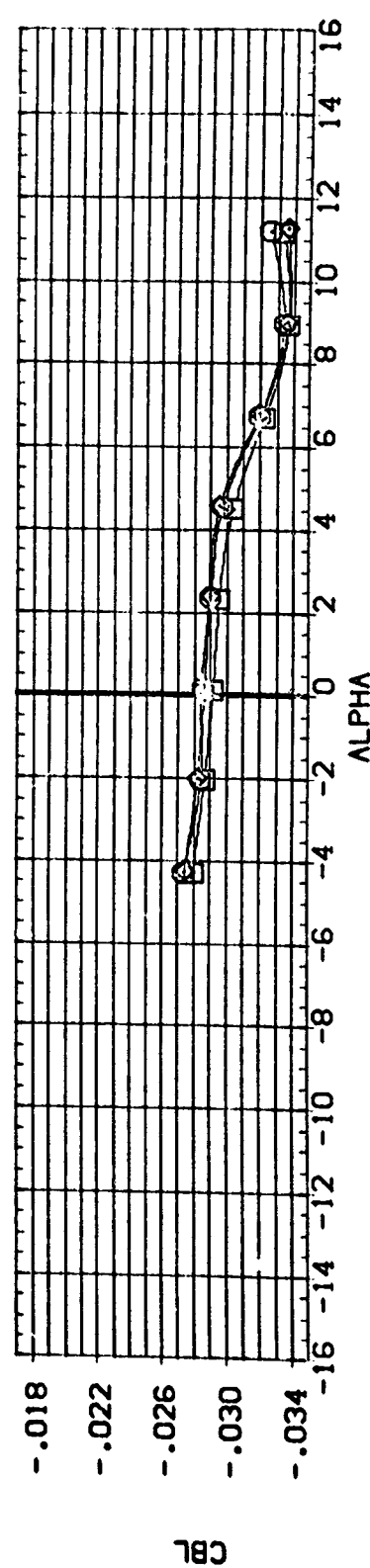
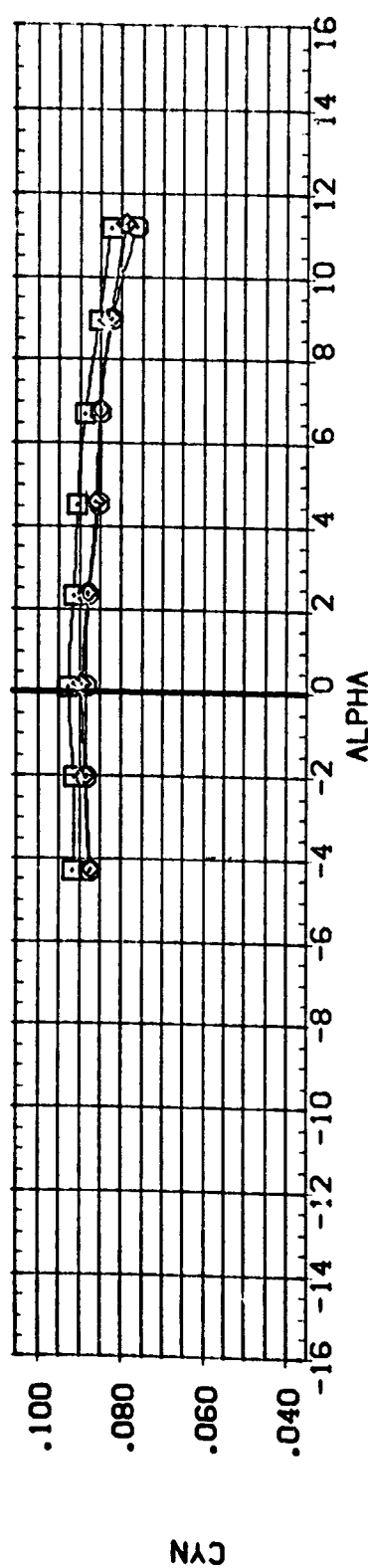
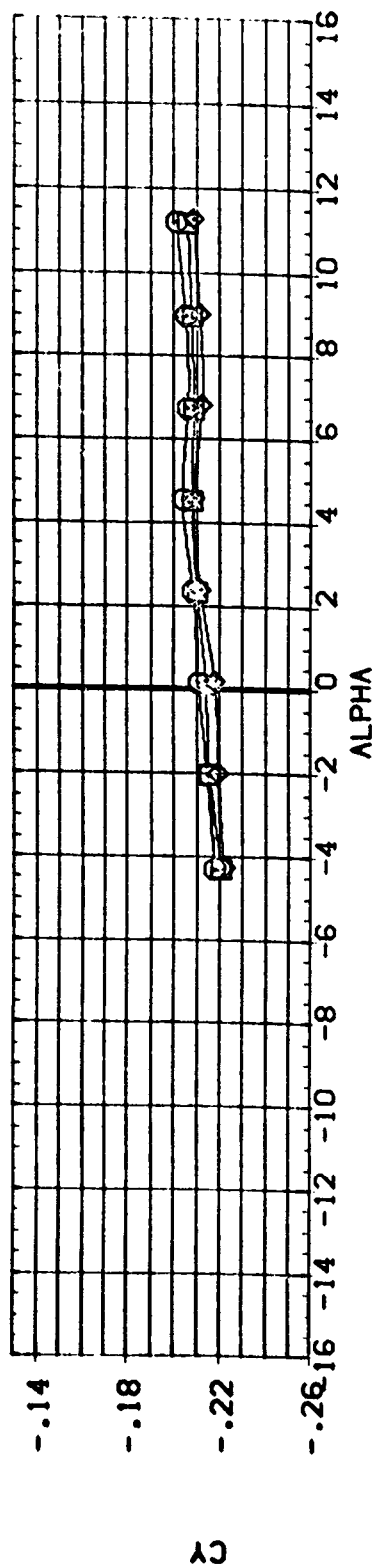
(E)MACH = 4.63

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R05008) LRC UPVT 1056/1073 1A42A/B
 (R06015) LRC UPVT 1056/1073 1A42A/B
 (R06017) LRC UPVT 1056/1073 1A42A/B

TIP1SIP201
 T4P6SIP201
 ZP4SIP201

BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 2.00

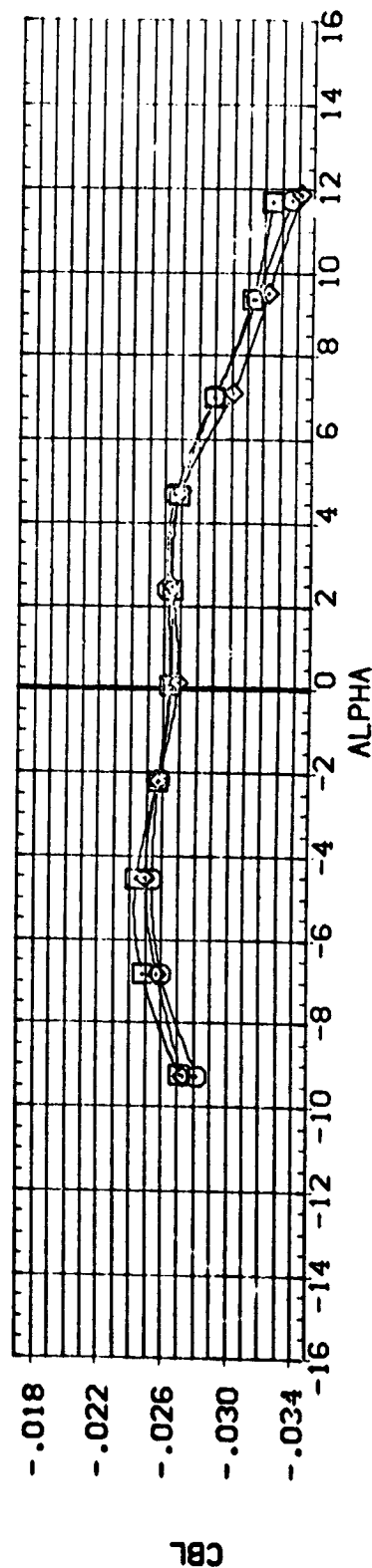
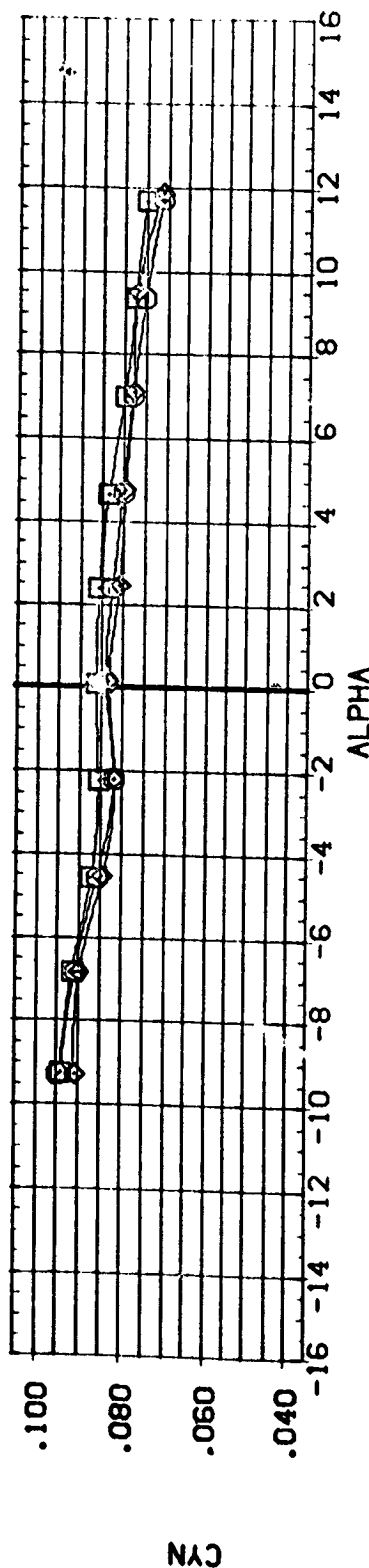
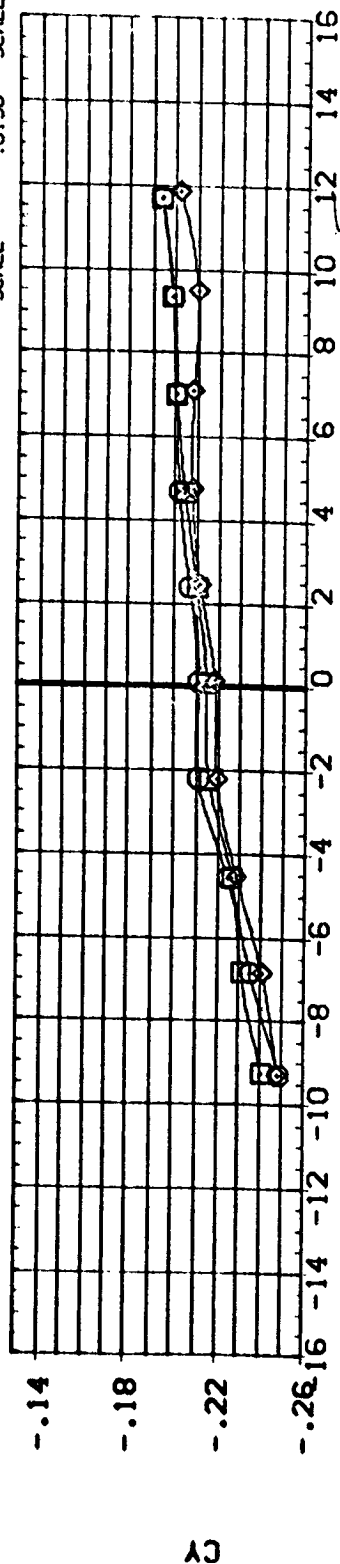
DATA SET SYMBOL
 (R06008)
 (R06015)
 (R06017)

CONFIGURATION DESCRIPTION
 LRC LPVT 1056/1073 1A42A/B
 LRC LPVT 1056/1073 1A42A/B
 LRC LPVT 1056/1073 1A42A/B

BETA
 5.000
 5.000
 5.000

RUDDER
 .000
 .000
 .000

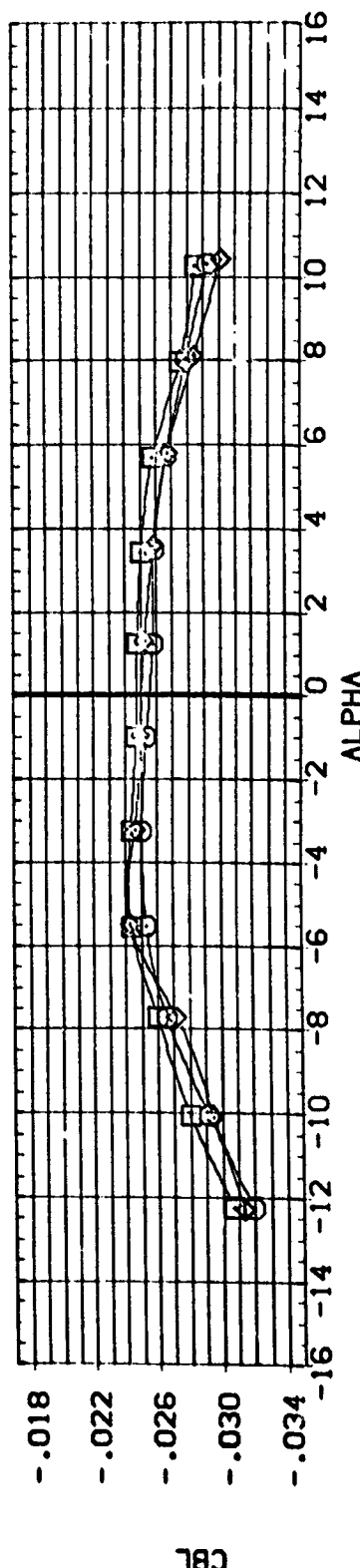
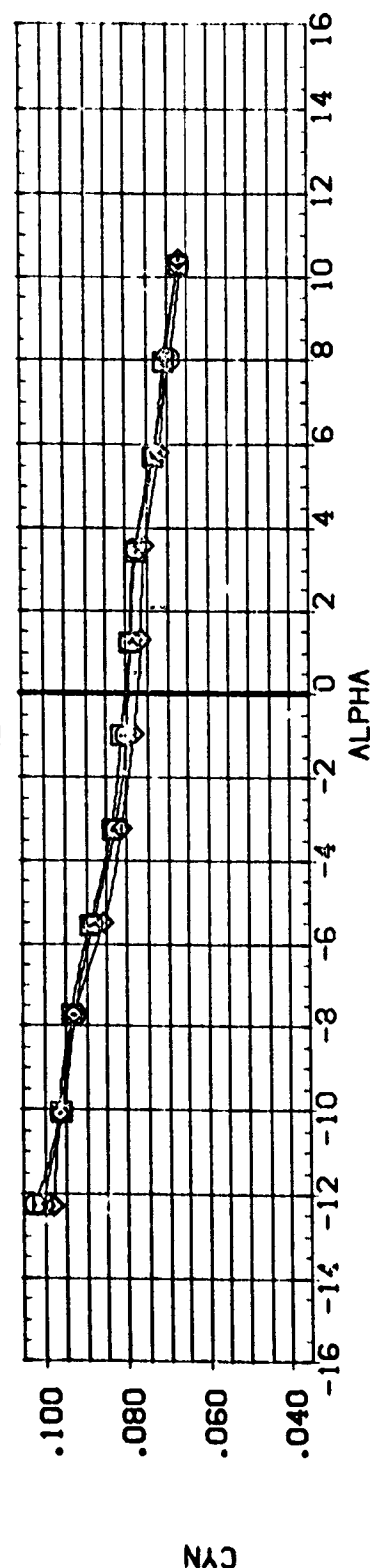
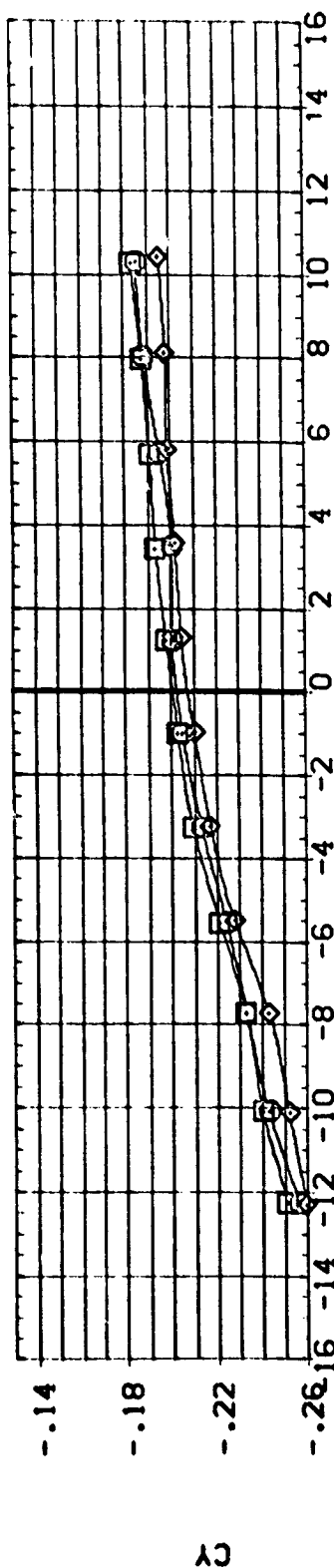
REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.50

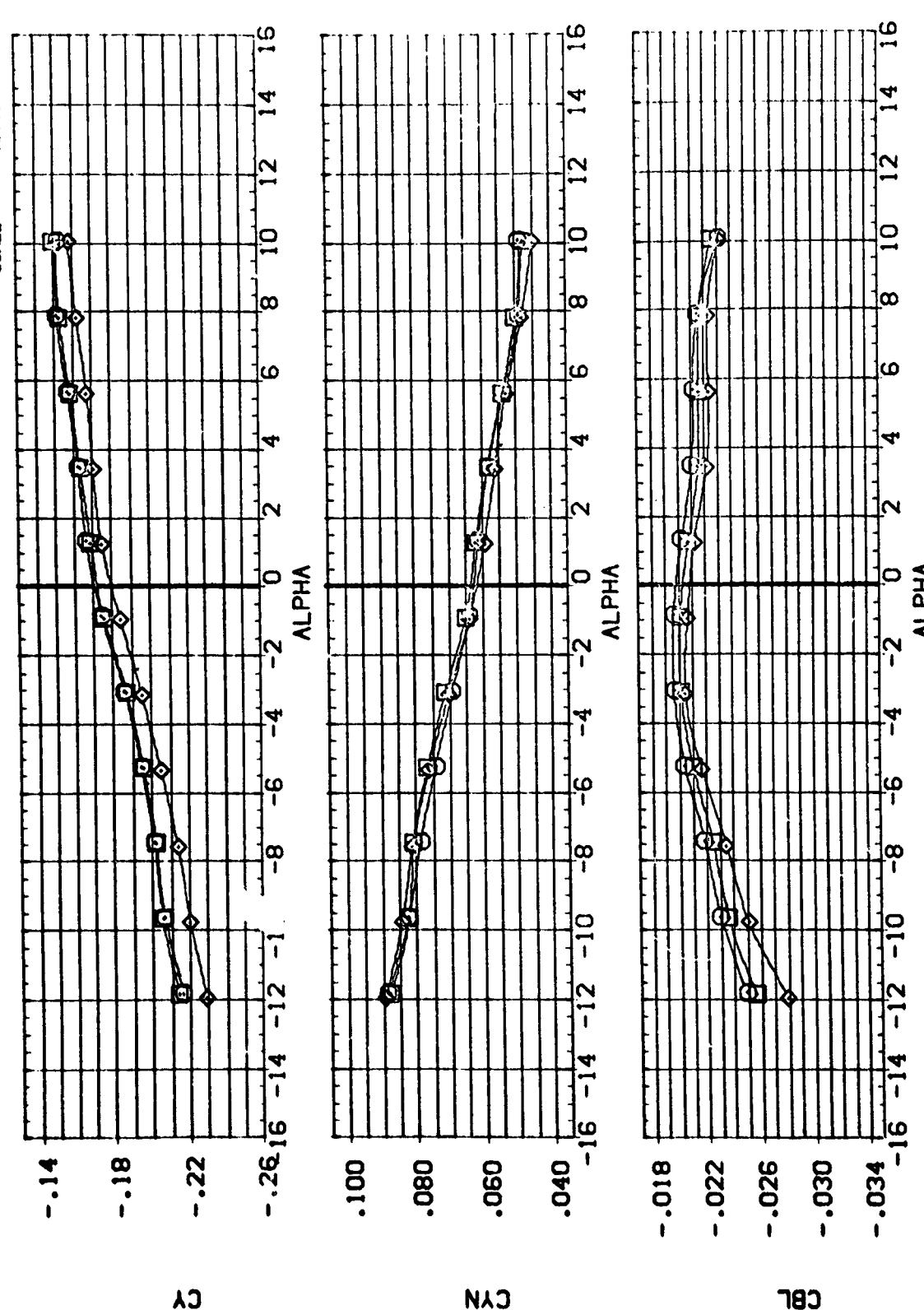
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIP ISIP201	BETA	RUDDER	REFERENCE INFORMATION
(R06008)	LRC UPVT 1056/1073 1A42A/B	T4P6SIP201	5.000	.000	SREF 2690.0000 SQ.FT.
(R06011)	LRC UPVT 1056/1073 1A42A/B	T2P4SIP201	5.000	.000	LREF 1290.3000 INCHES
(R06017)	LRC UPVT 1056/1073 1A42A/B		5.000	.000	BREF 1290.3000 INCHES
					XMRP 976.0000 INCHES
					YMRP 400.0000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS

(CJ)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(R05008)	LRC UPVT 1056/1073 IM42A/B	5.000	.000	SREF 2690.0000 SQ. FT.
(R05015)	LRC UPVT 1056/1073 IM42A/B	5.000	.000	LREF 1290.3000 INCHES
(R05017)	LRC UPVT 1056/1073 IM42A/B	5.000	.000	BREF 1290.3000 INCHES
				YMRP .0000 INCHES
				ZMRP .0000 INCHES
				SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS

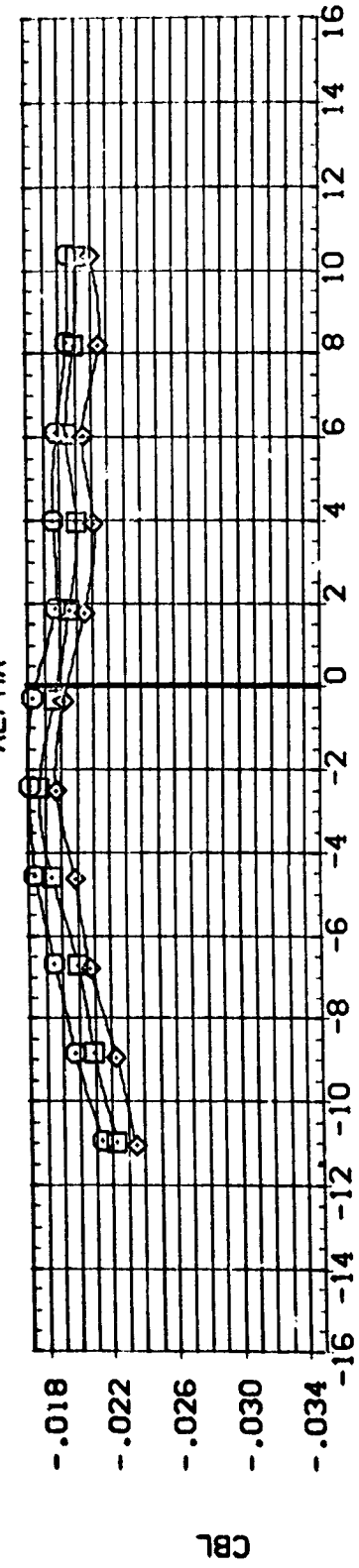
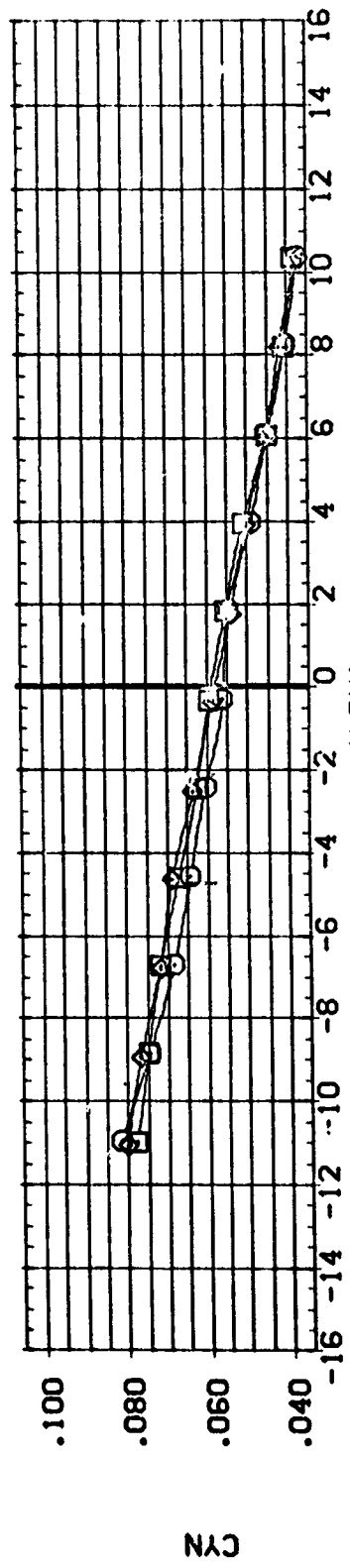
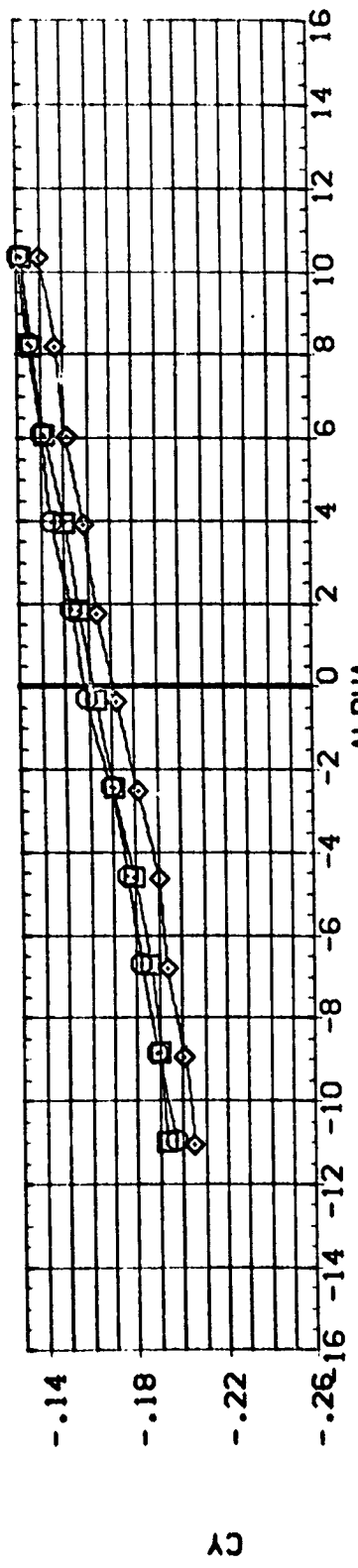
DATA SET SYMBOL
 (R06008)
 (R06015)
 (R06017)

CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B

BETA
 5.000
 5.000
 5.000

RUDDER
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2690.0700 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS

(E)MACH = 4.63

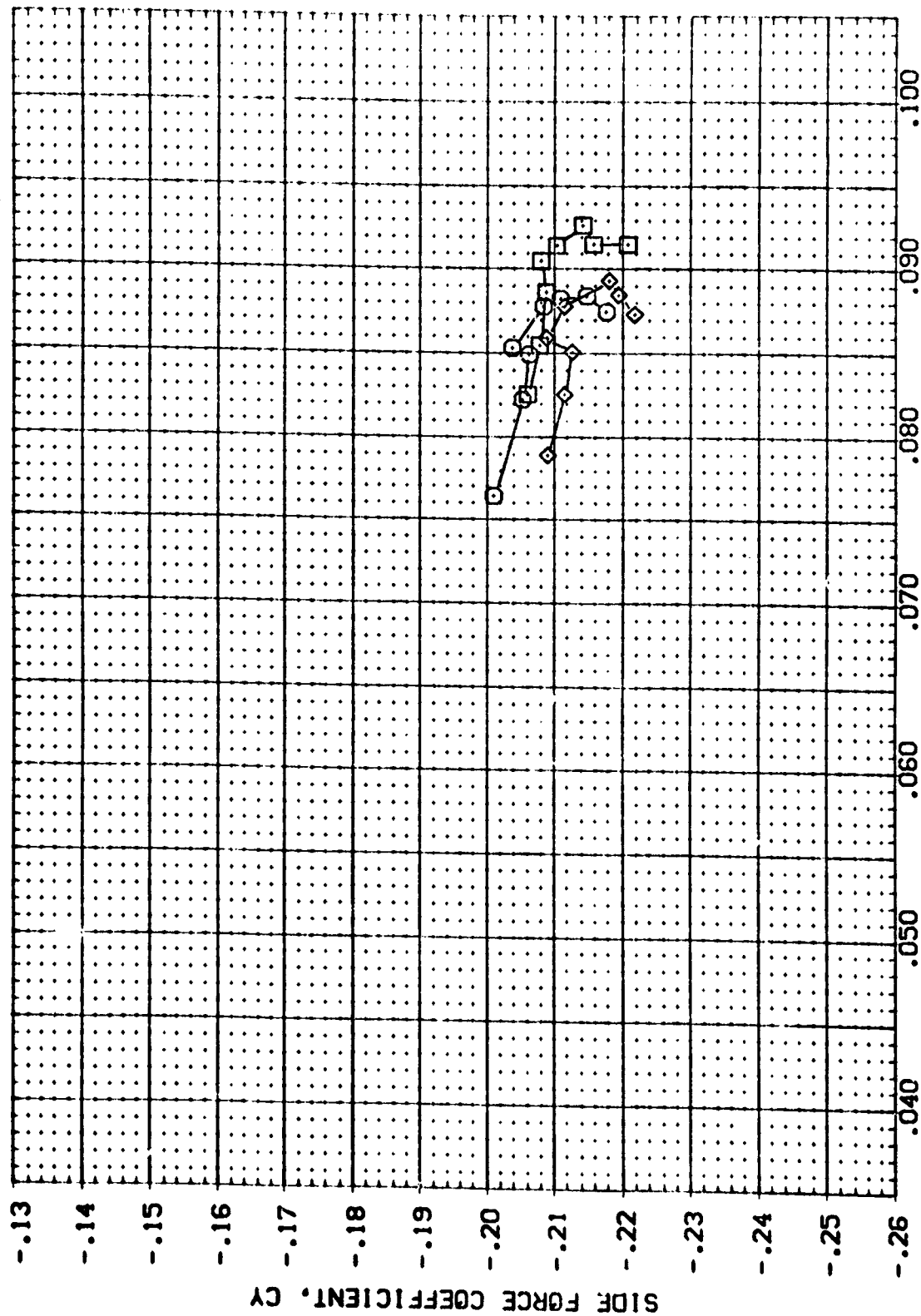


CONFIGURATION	DESCRIPTION
LRC UPVT	1056/1073 1A42A/B
LRC UPVT	1056/1073 1A42A/B
LRC UPVT	1056/1073 1A42A/B

T1P1S1P201
T4P6S1P201
T2P4S1P201

BETA	RUDDER
5.000	.000
5.000	.000
5.000	.000

REFERENCE INFORMATION	
SREF	2690.0000 SQ.FT.
LREF	1290.3000 INCHES
BREF	1290.3000 INCHES
XMRP	976.0000 INCHES
YMRP	.0000 INCHES
ZMRP	400.0000 INCHES
SCALE	.0150 SCALE



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 2.00

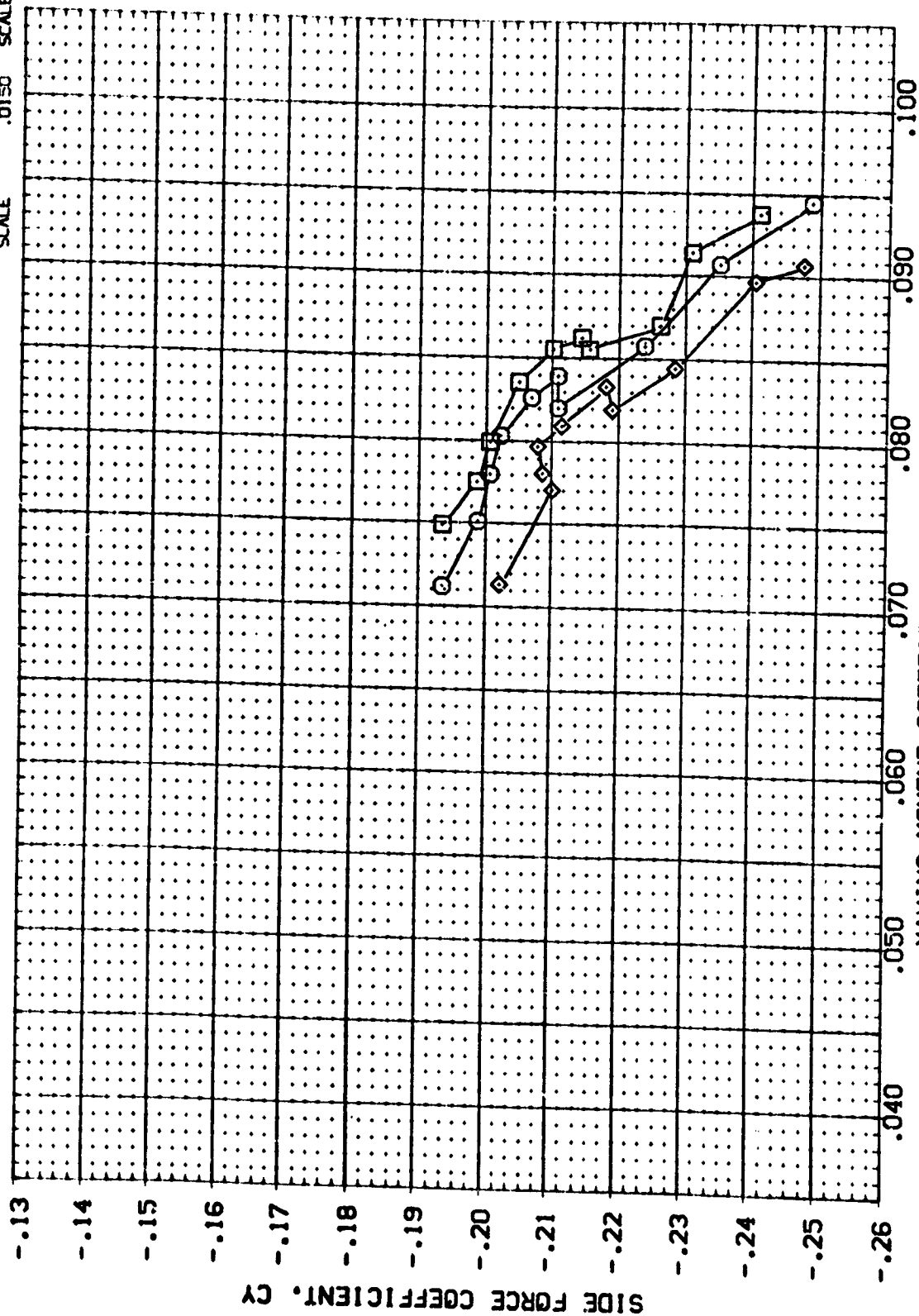
PAGE 122



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R06009) LRC UPVT 1056/1073 I42A/B
 (R06015) LRC UPVT 1056/1073 I42A/B
 (R06017) LRC UPVT 1056/1073 I42A/B

BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 460.0000 INCHES
 SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL
(R05008)
(R05015)
(R05017)



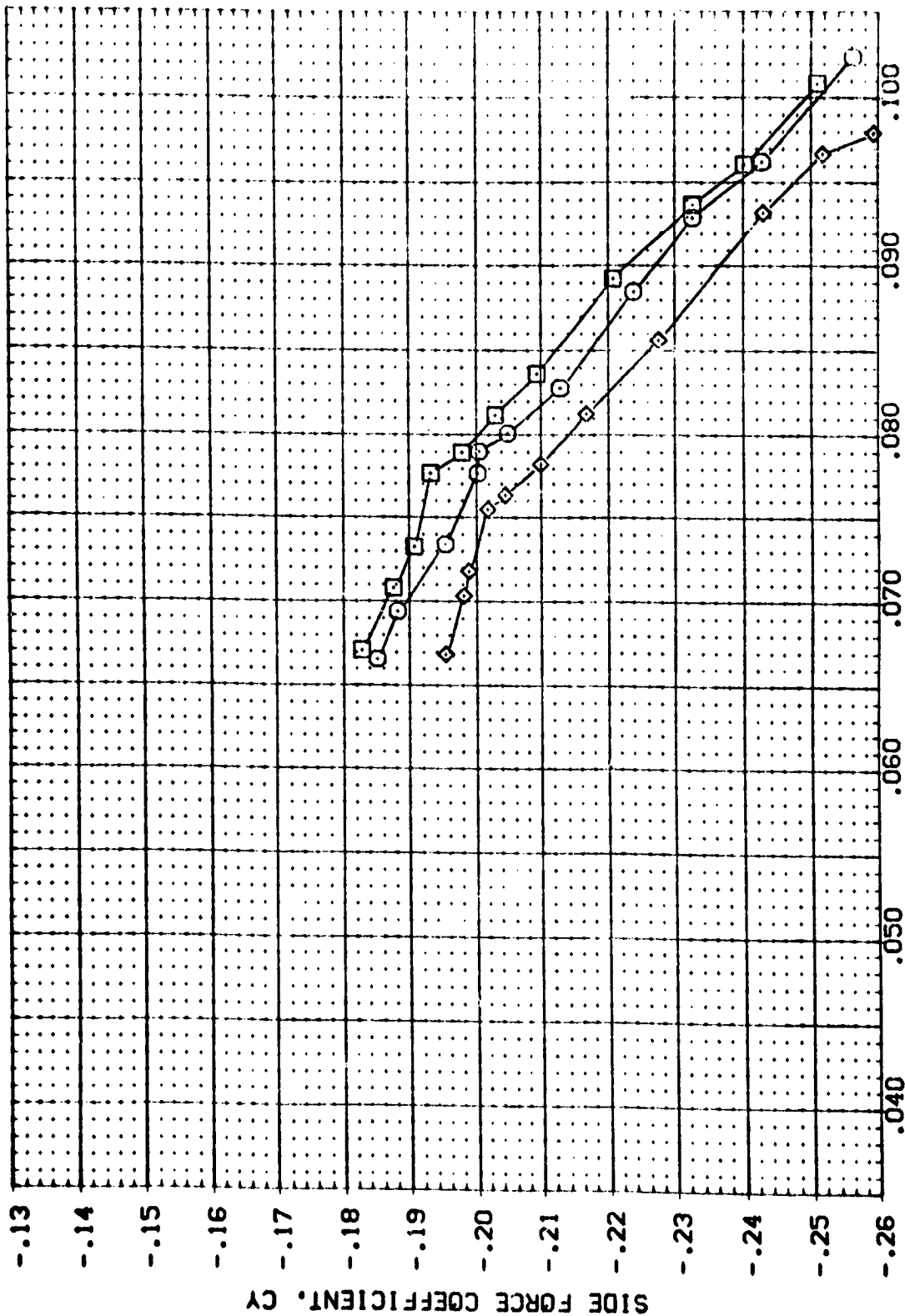
CONFIGURATION DESCRIPTION
LRC UPVT 1056/1073 I42A/B
LRC UPVT 1056/1073 I42A/B
LRC UPVT 1056/1073 I42A/B

TIPISIP201
T4P6SIP201
T2P4SIP201

BETA
5.000
5.000
5.000

RUDDER
.000
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT
LREF 1290.3000 INCHES
XMRP 1290.3000 INCHES
YMRP 976.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS

(C)MACH = 2.86

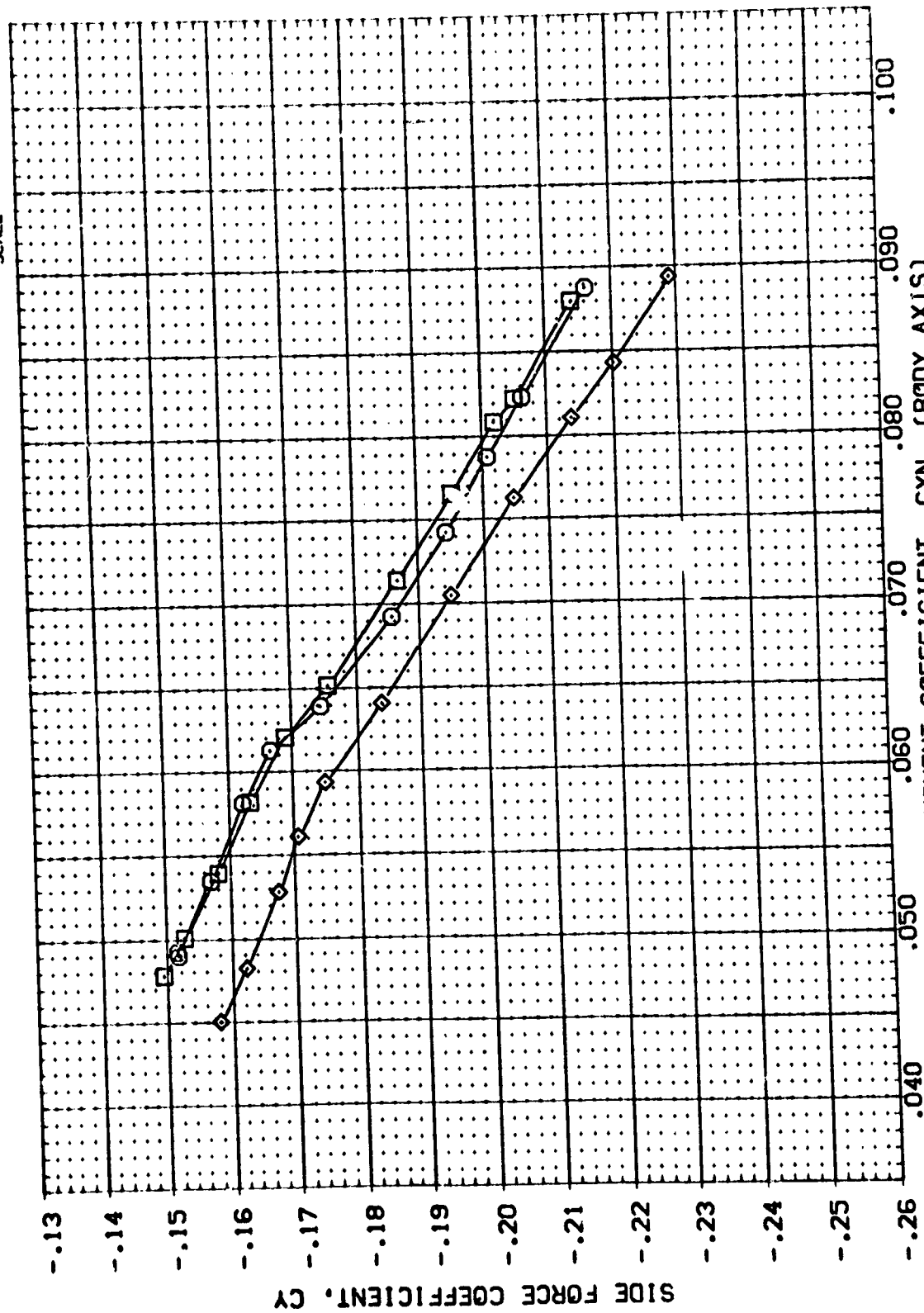
REFERENCE INFORMATION
 SREF 2690.0000 50 FT
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 5.000 .000
 5.000 .000
 5.000 .000

TIPISIP201
 TAP6SIP201
 T2P4SIP201




CONFIGURATION DESCRIPTION
 LRC UPVT 1056/1073 1A42MB
 LRC UPVT 1056/1073 1A42MB
 LRC UPVT 1056/1073 1A42MB

DATA SET SYMBOL
 (R05008)
 (R05015)
 (R05017)



EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS
 YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

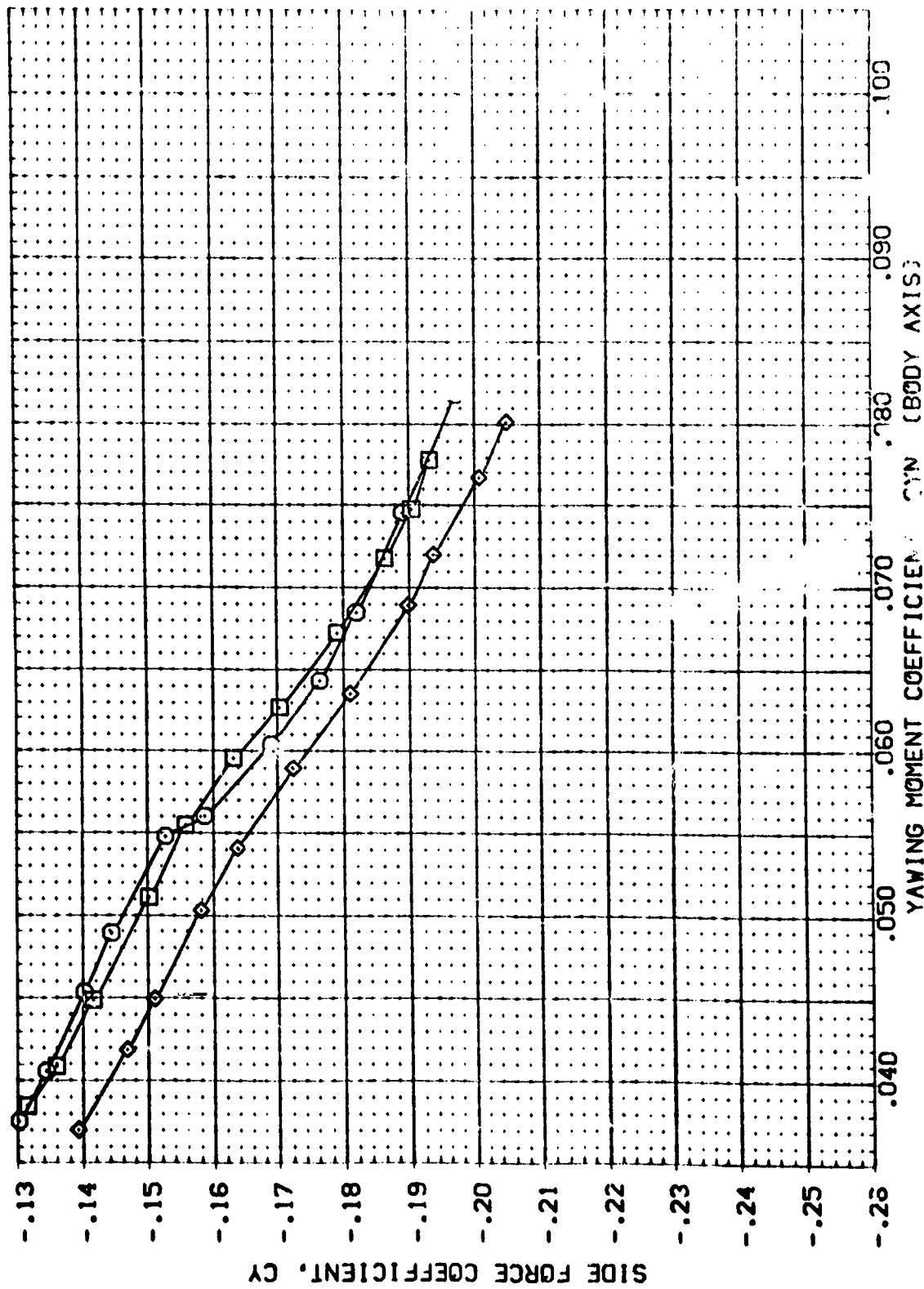
(O)MACH = 3.90

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(P05008)		LRC UPVT 1056/1073	1A42A/B
(F03015)		LRC UPVT 1056/1073	1A42A/B
(K06017)		LRC UPVT 1056/1073	1A42A/B

T1P1S1P201
T4P6S1P201
T2P4S1P201

BETA	RUDDER
5.000	.000
5.000	.000
5.000	.000

REFERENCE INFORMATION	
SREF	2690.0000
LREF	1290.3000
BREF	1290.3000
XMRP	376.0000
YMRP	0.0000
ZMRP	400.0000
	.0100
	SCALE

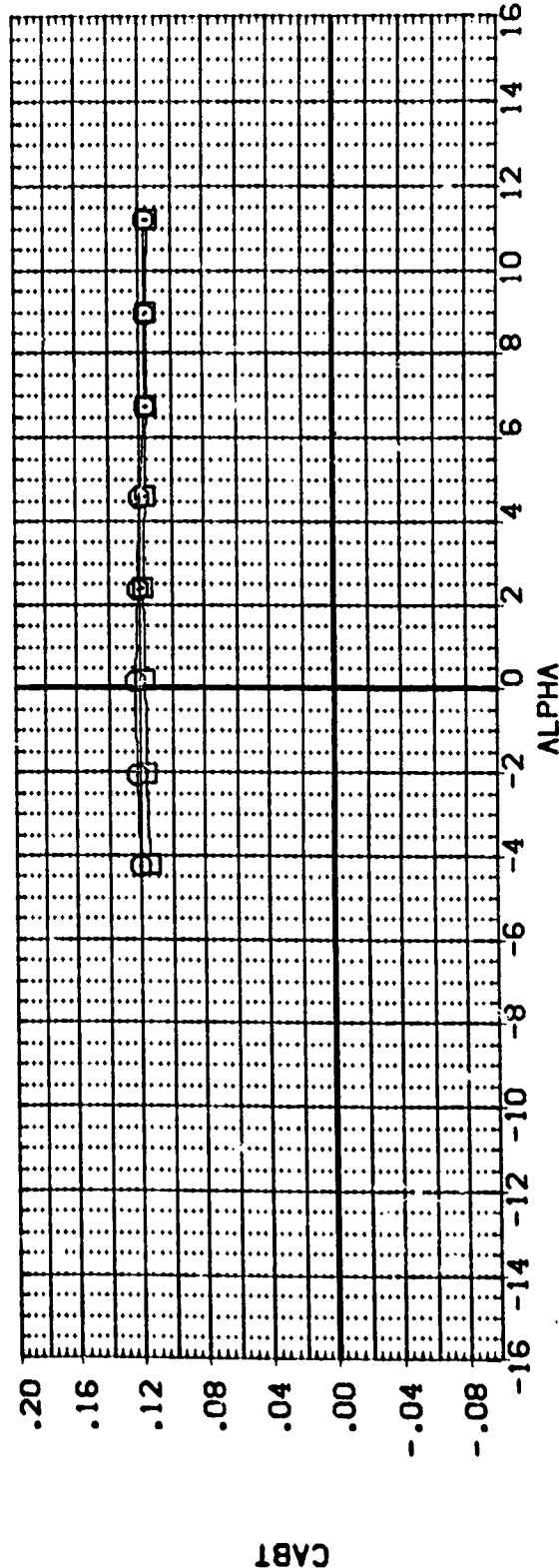
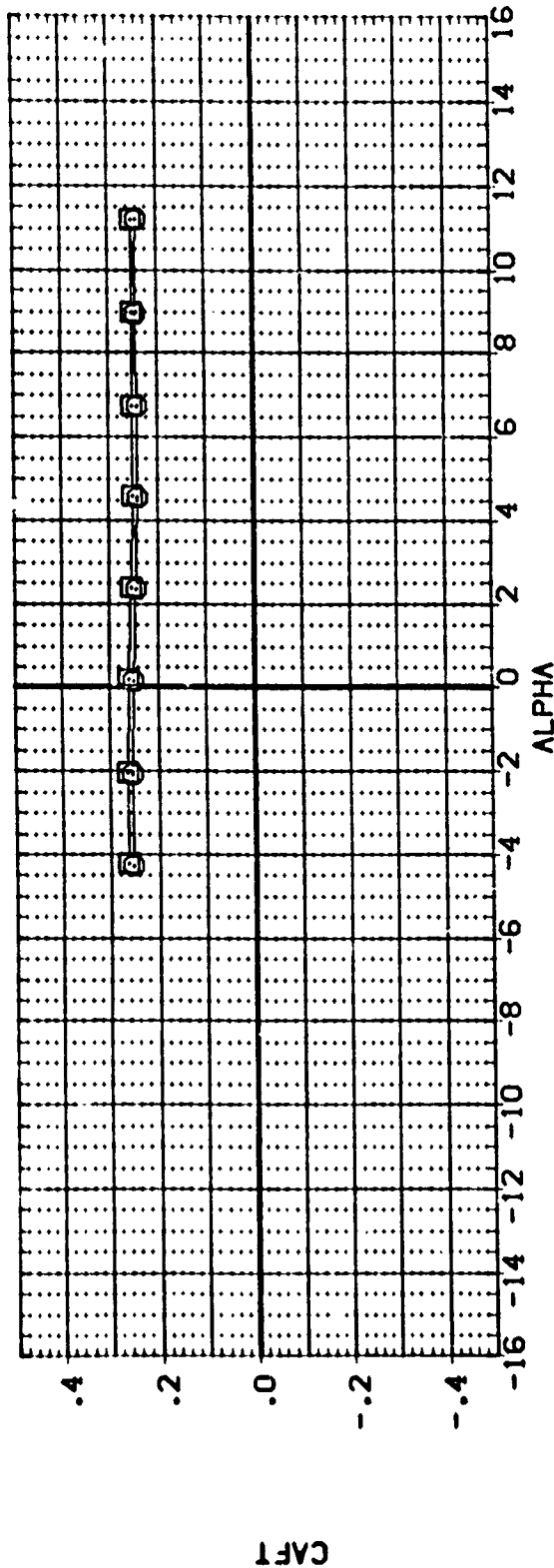


EFFECT OF EXTERNAL TANK NOSE SHAPE ON LAT.-DIRECT. CHARACTERISTICS

$$(\epsilon)_{\text{MACH}} = 4.63$$

PAGE 125

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05007)	LRC JUNT 1055/1073 :A42A/B	.000	.000	SREF 2690.0000 SQ.FT.
(H06012)	LRC JUNT 1055/1073 :A42A/B	.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 INCHES



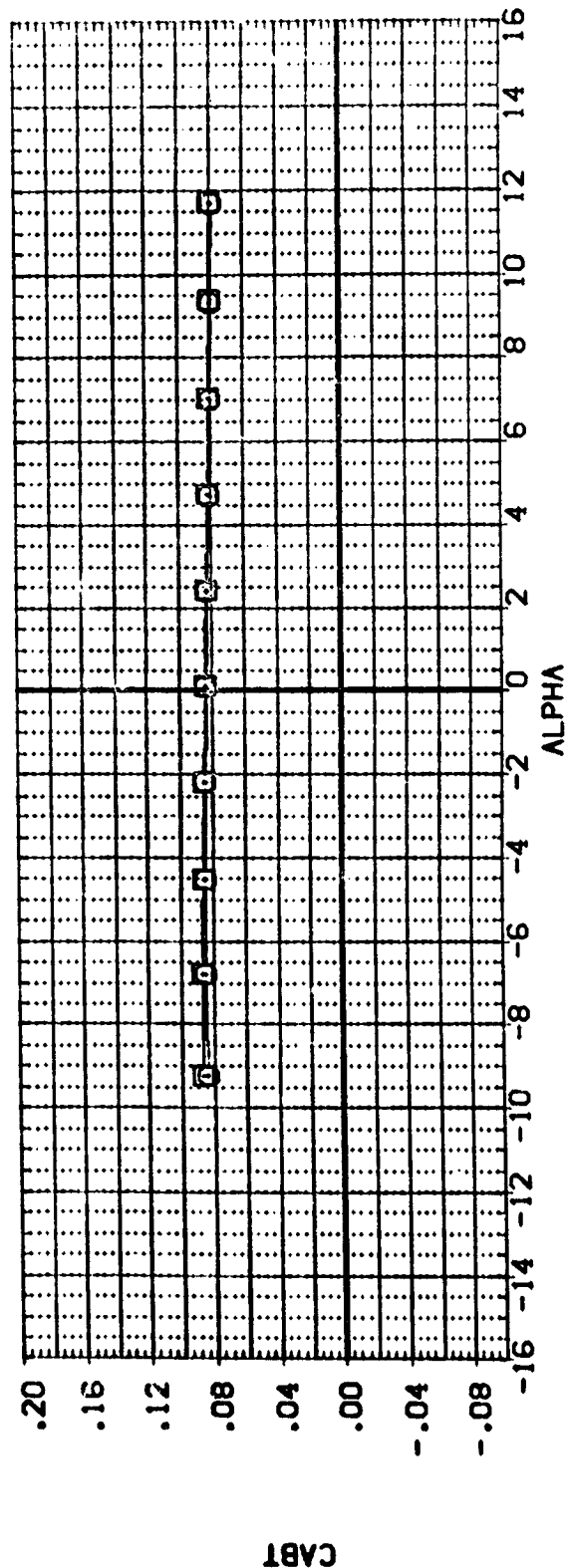
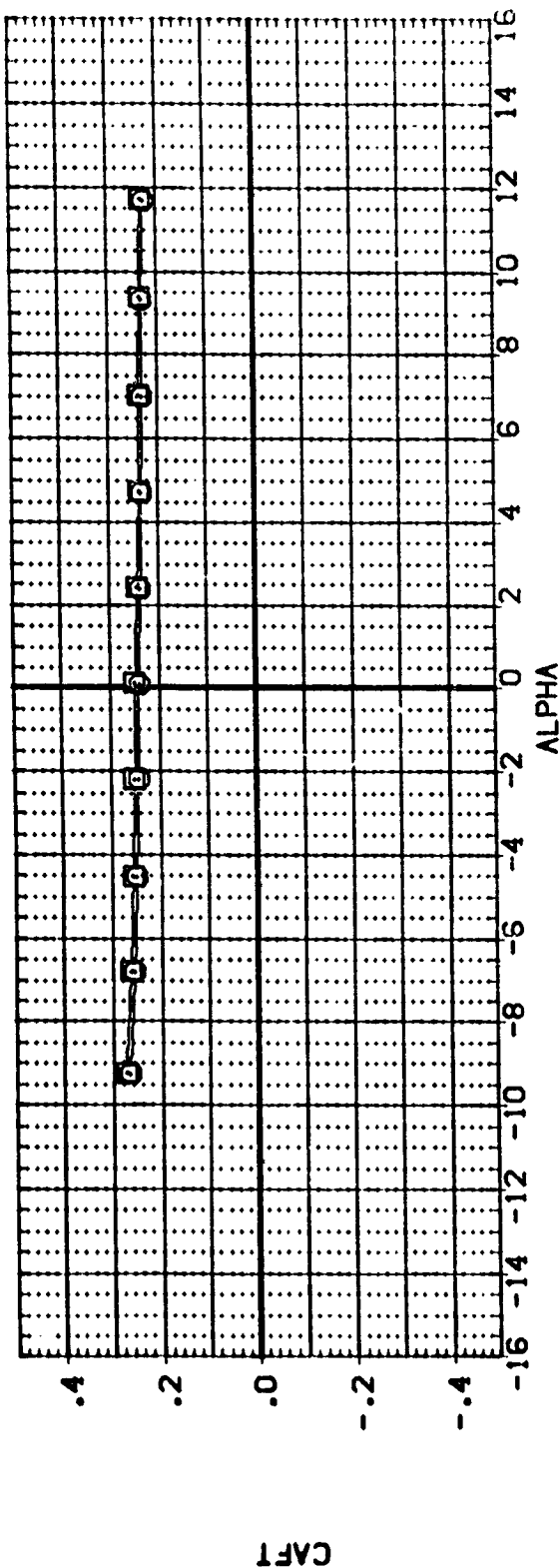
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL: (H05007) (H05012)
 CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42A/B LRC UPVT 1056/1073 1A42A/B

BETA: .000 .000
 RUDDER: .000 .000

REFERENCE INFORMATION:
 SREF: 2690.0000 50. FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: .0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

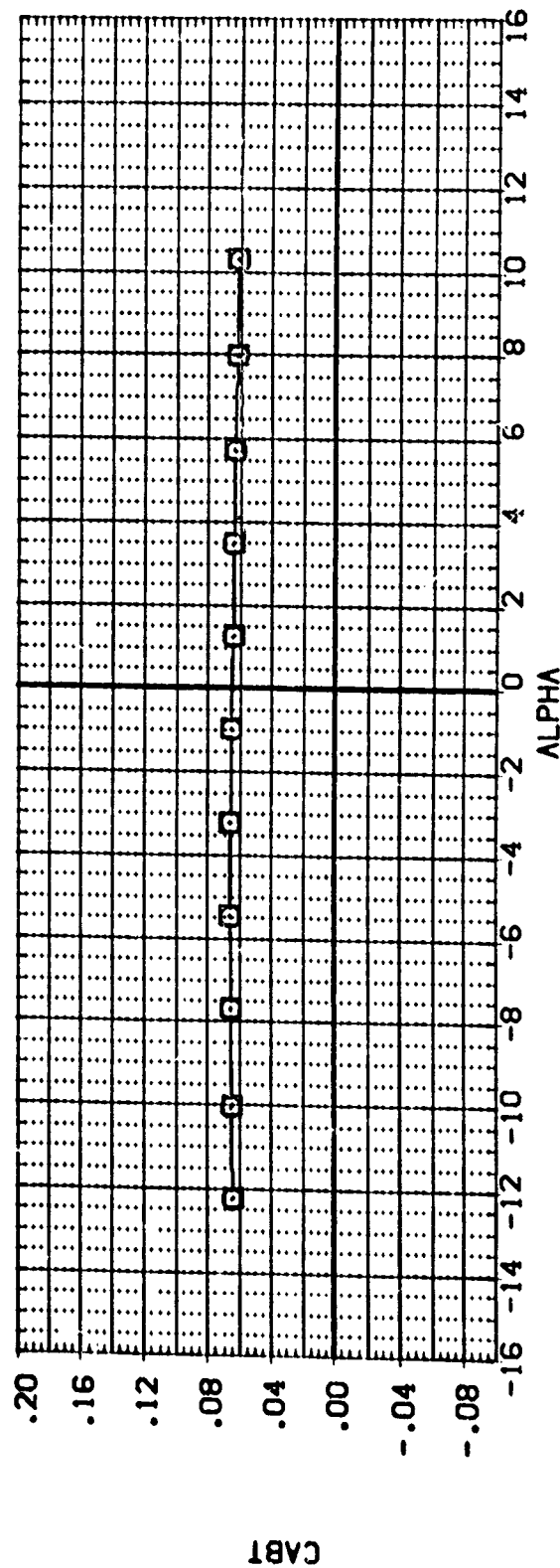
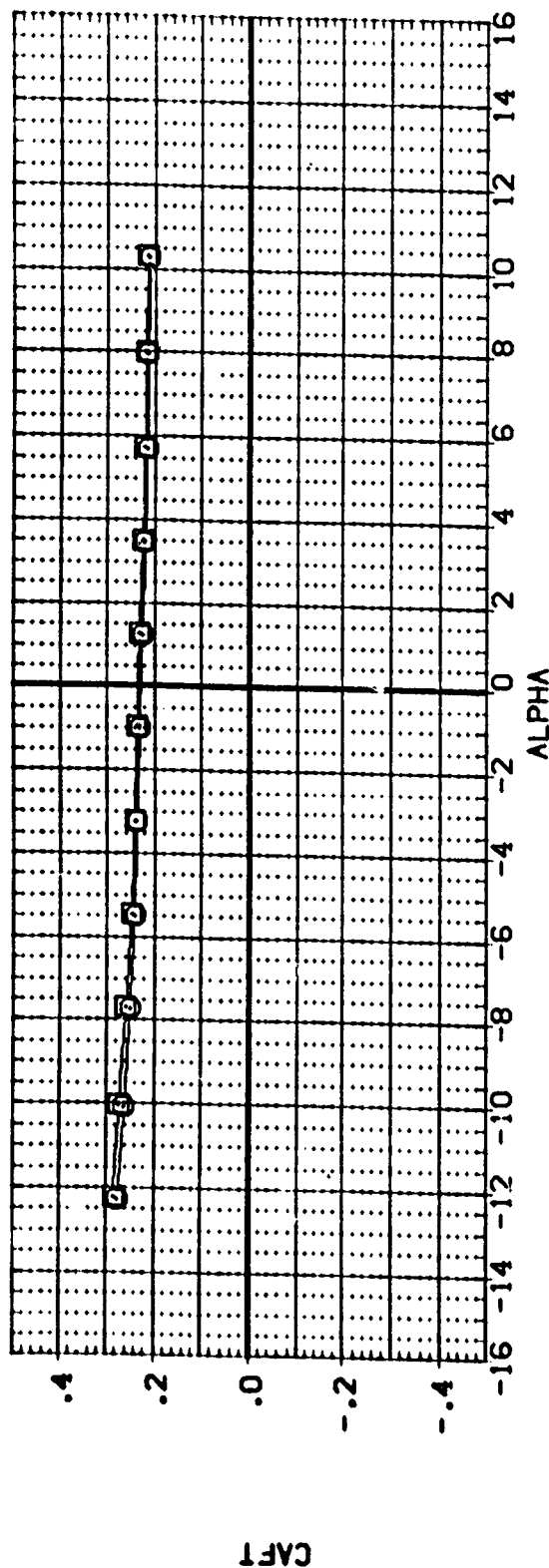
(B)MACH = 2.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H05007) LRC JPVT 1056/1073 1A42A/B
 (H05012) LRC JPVT 1056/1073 1A42A/B

TIPISIP201
 TIPISIP201FR1

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

DATA SET SYMBOL (M05007) (M06012)

CONFIGURATION DESCRIPTION

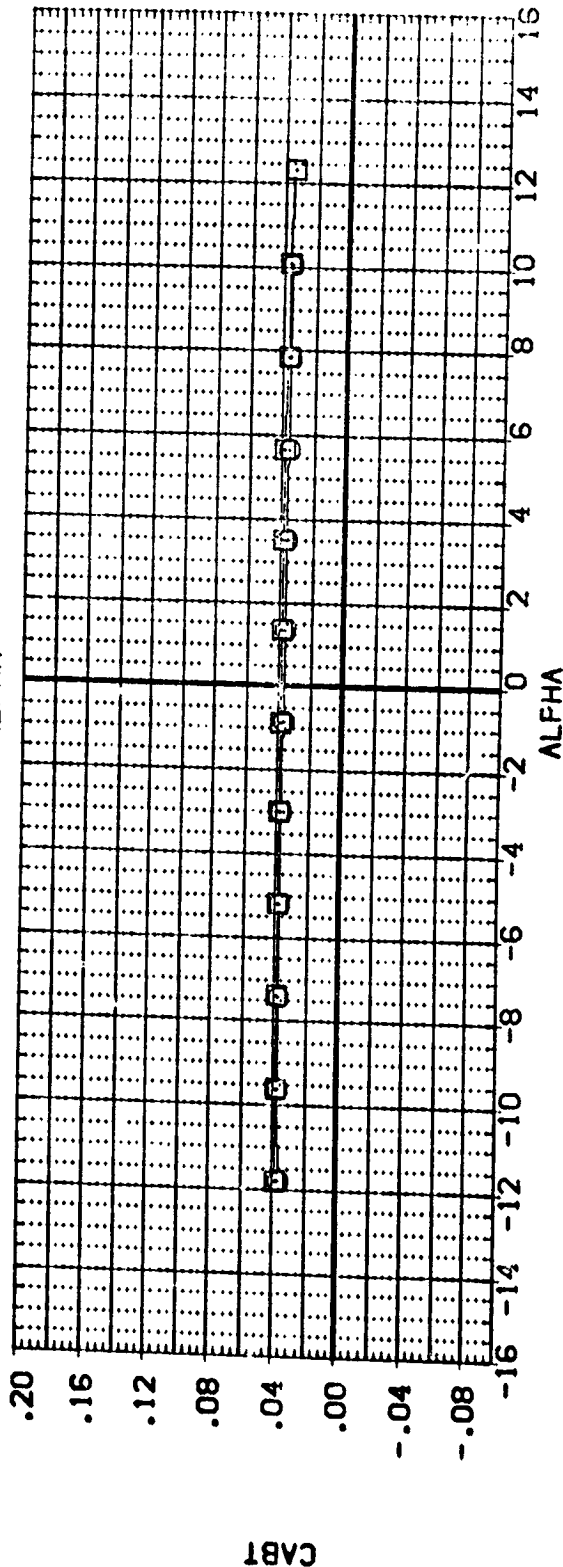
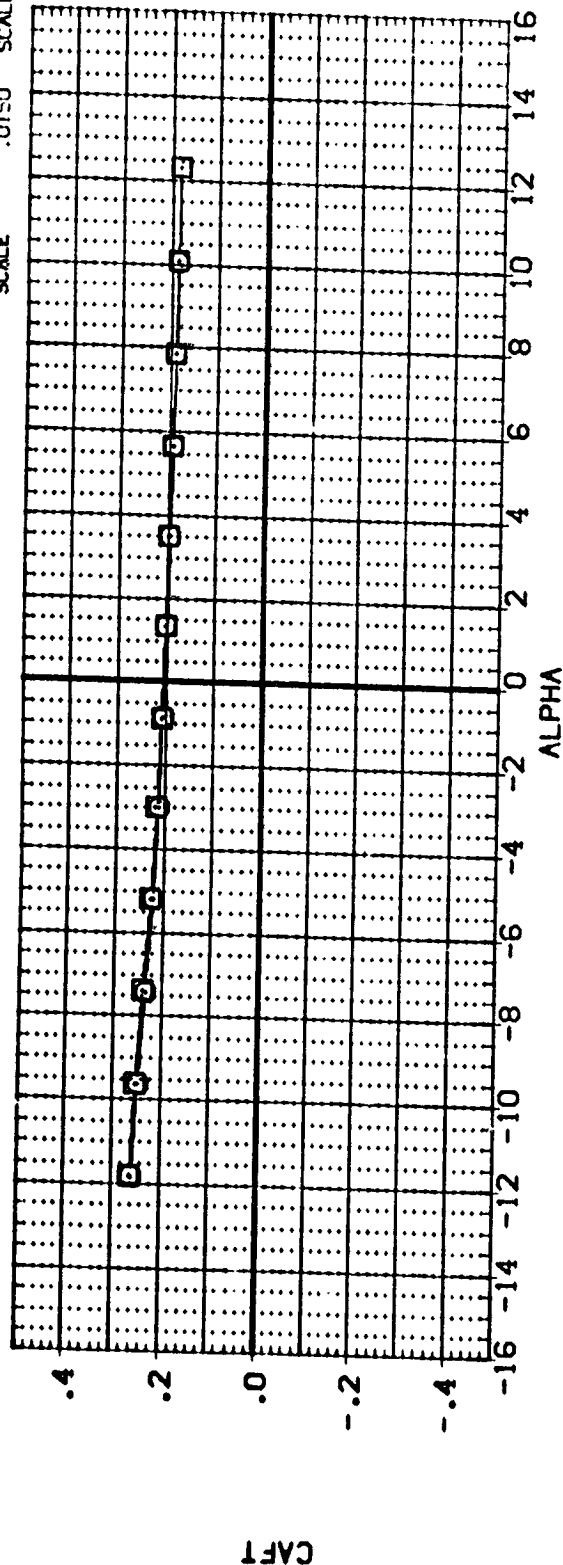
LRC UPVT 1056/1073 1A42A/B
LRC UPVT 1056/1073 1A42A/B



TIPISIP201
TIPISIP201FRI

BETA .000 .000
RUDDER .000 .000

REFERENCE INFORMATION
SREF 2690.0000 SQ. FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 0.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

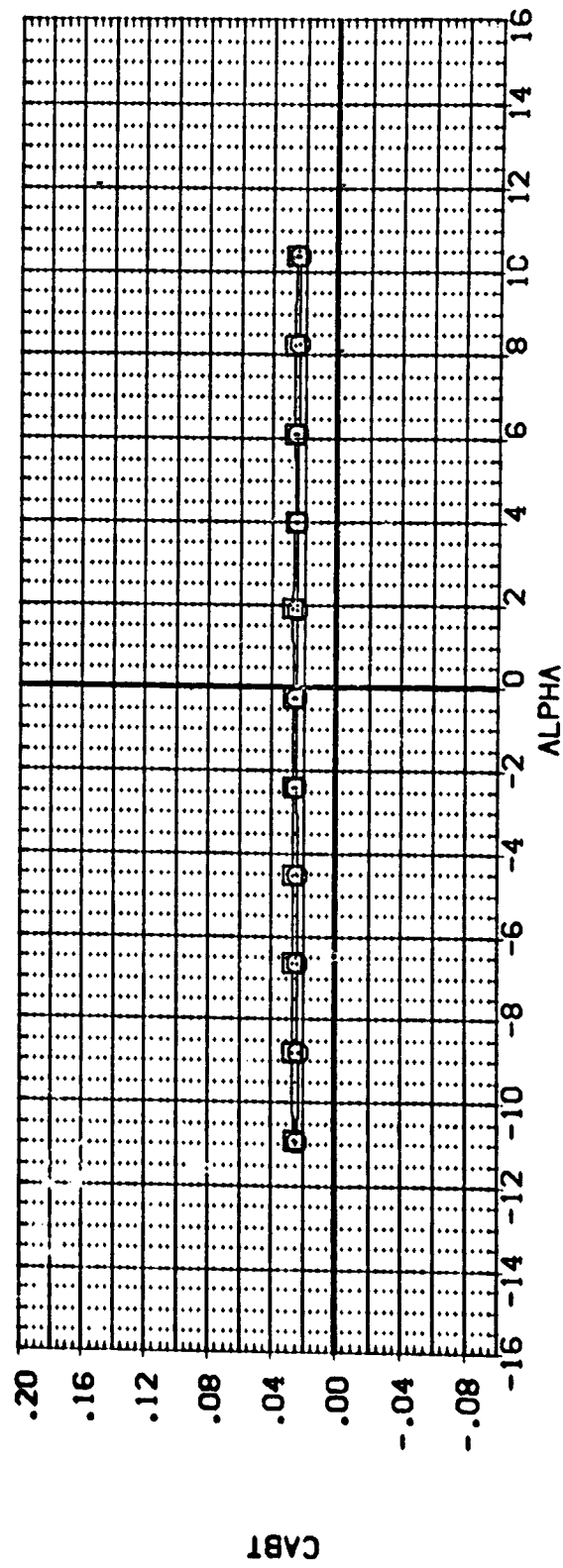
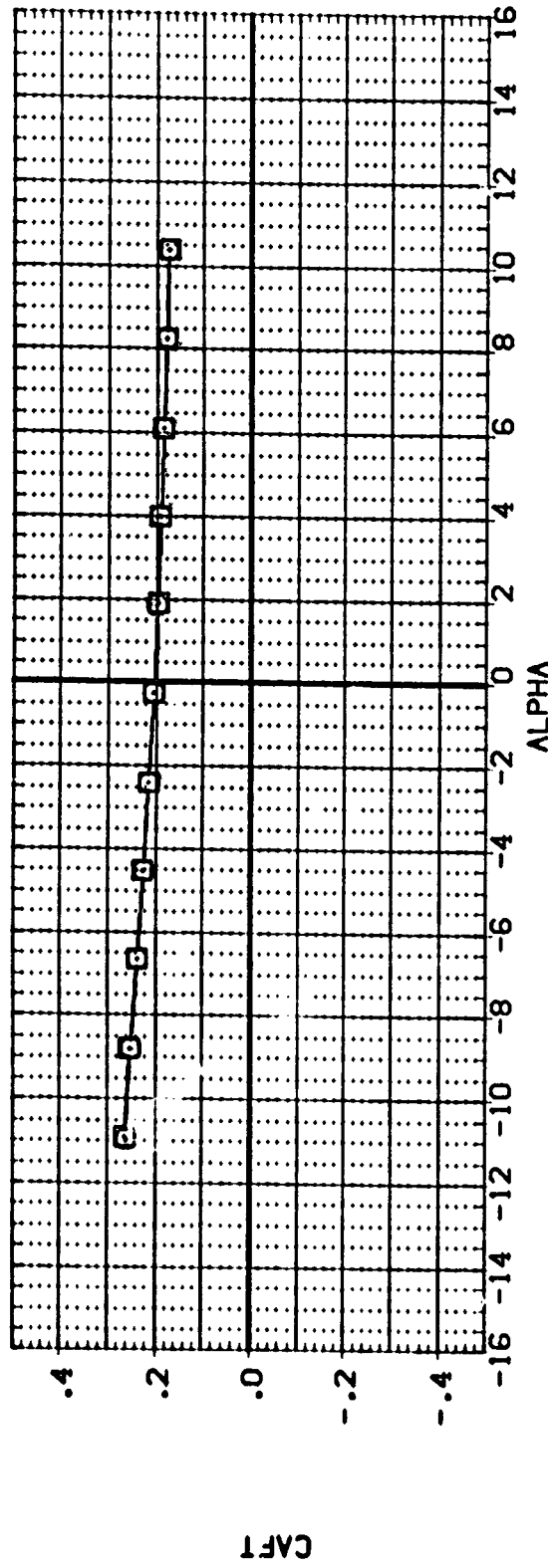
(D)MACH = 3.90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (M06007) LRC .PVT 1056/1073 1A42A/B
 (M06012) LRC .PVT 1056/1073 1A42A/B

TIPISIP201
 TIPISIP201FRI

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 INCHES

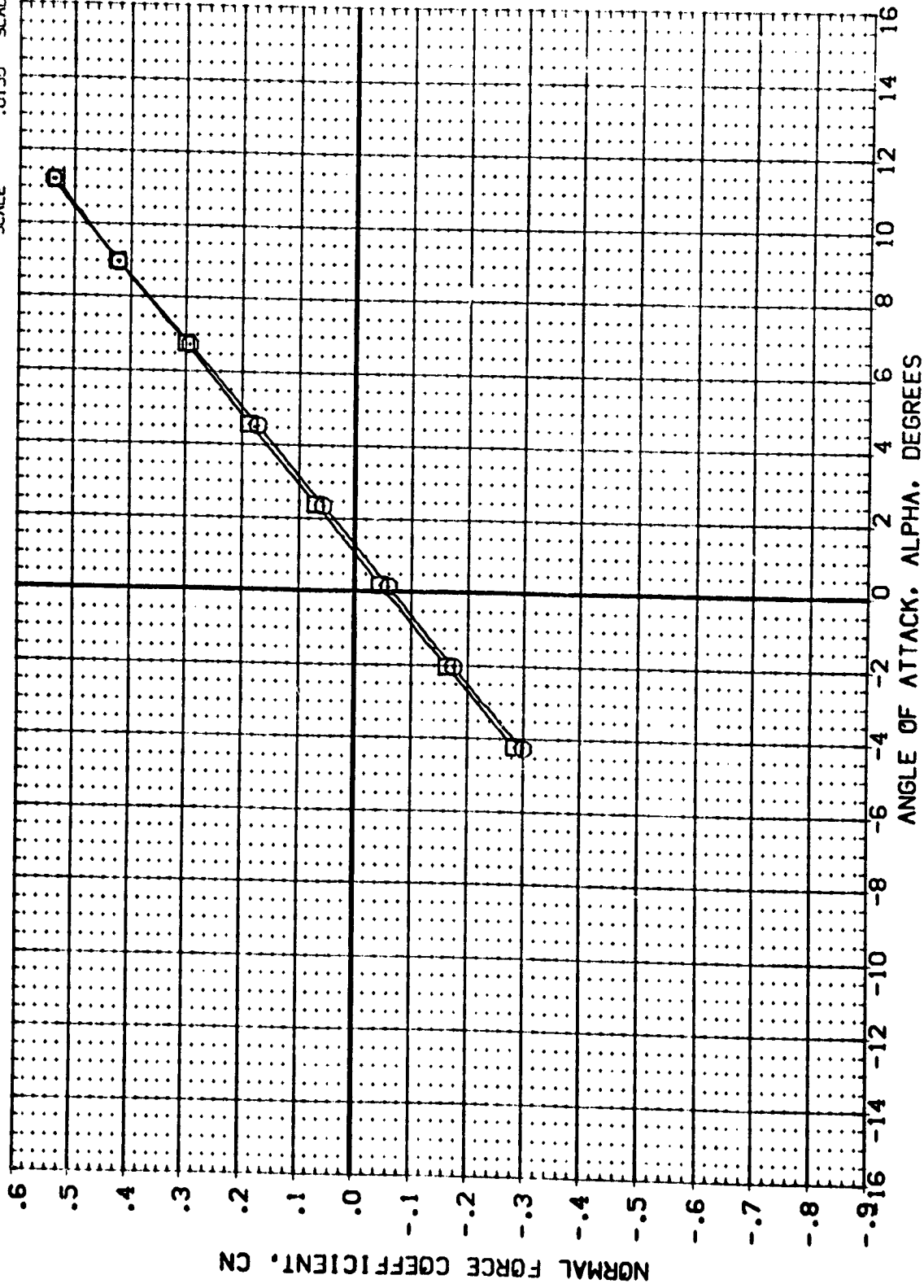


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS
 (E)MACH = 4.63

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H05007) LRC UPVT 1056/1073 1A42A/B
 (H05012) LRC UPVT 1056/1073 1A42A/B

BETA RUDDER
 .000 .000
 .000 .000

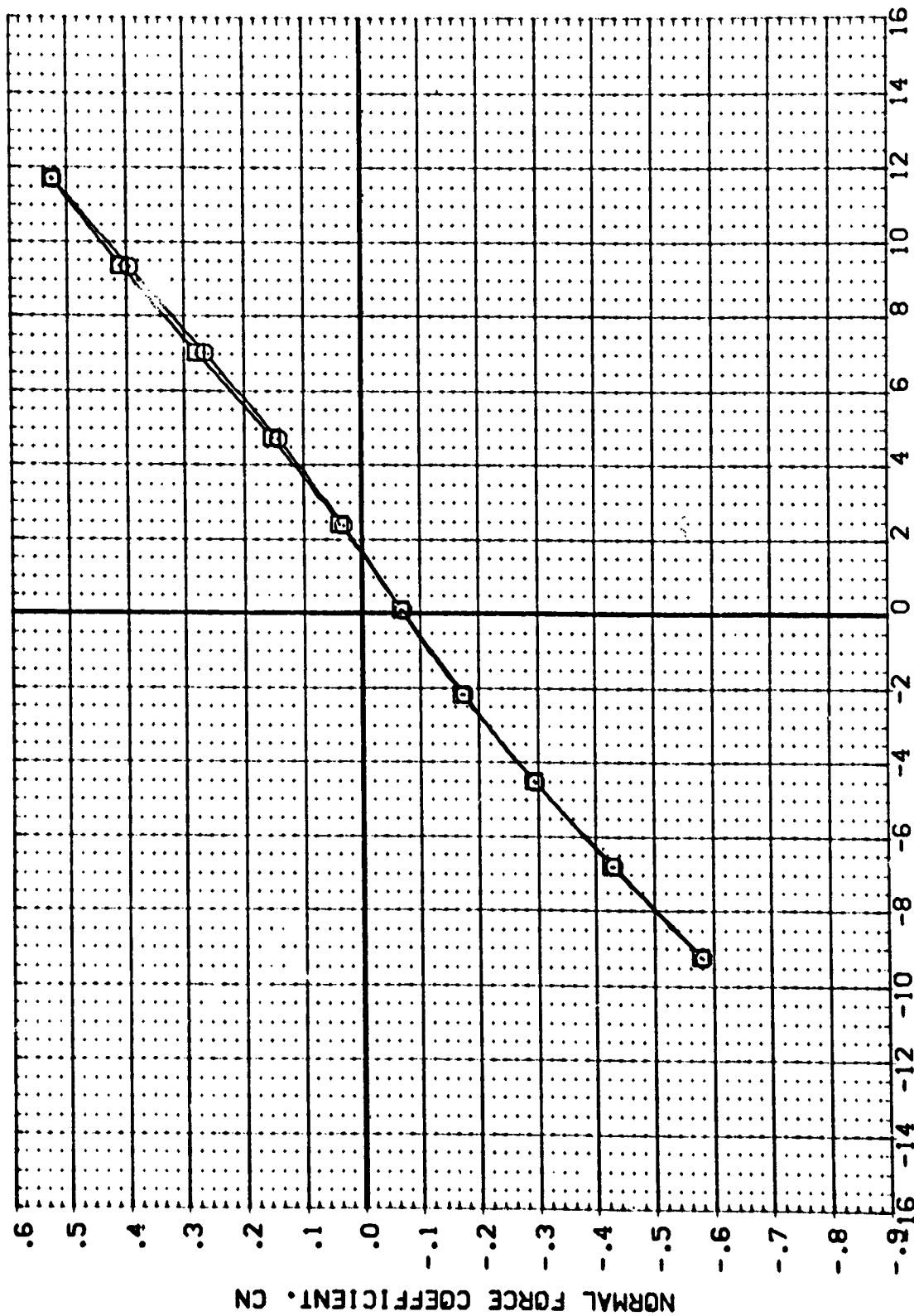
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H06007)	LRC JUNT 1055/1073 1A42A/B	.000	.000	SREF 2650.0000 SO.FT.
(H06012)	LRC JUNT 1055/1073 1A42A/B	.000	.000	LREF 1250.3000 INCHES
				BREF 1230.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



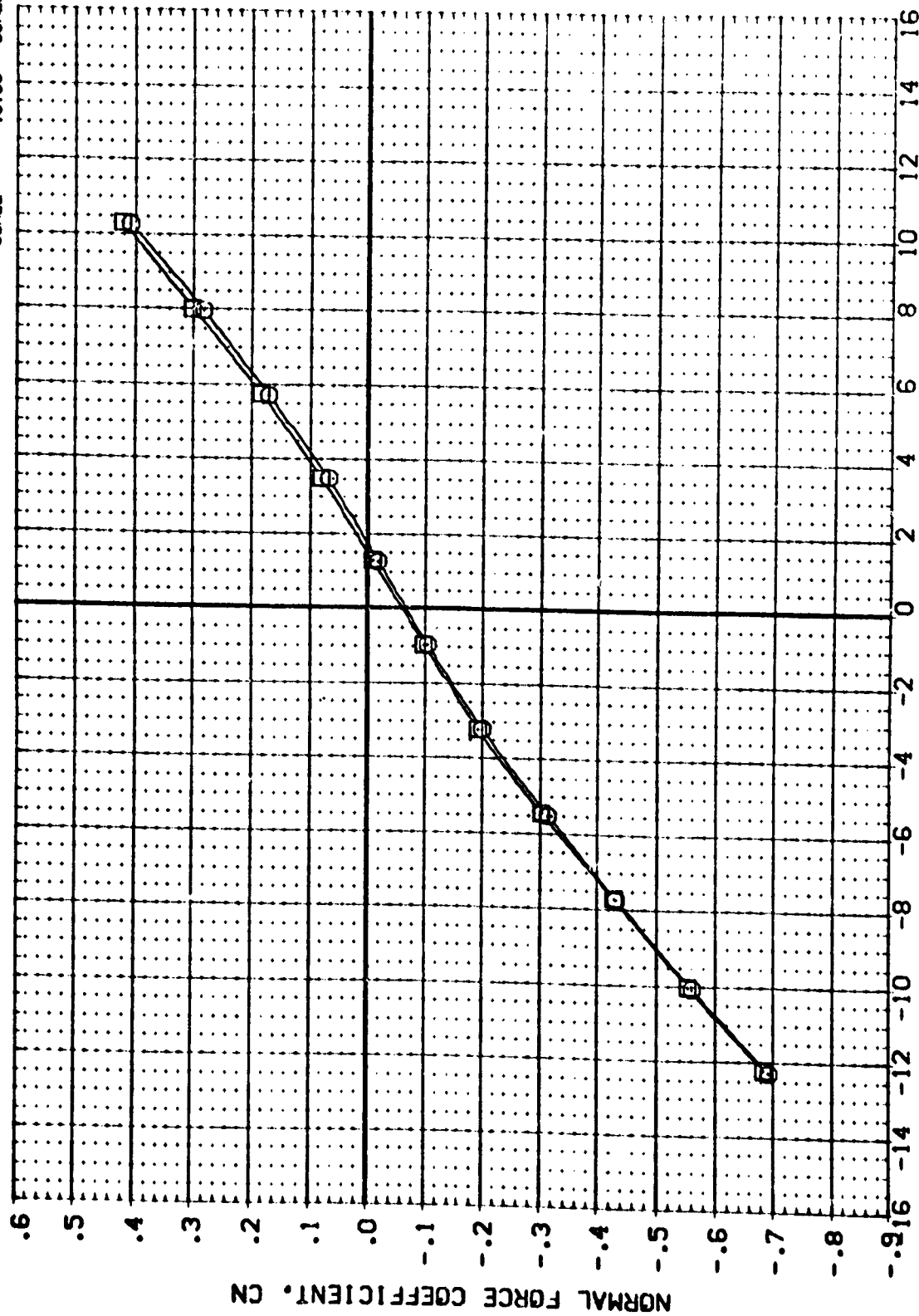
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H05007) LRC LPVT 1056/1073 1A42A/B
 (H05012) LRC LPVT 1056/1073 1A42A/B

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

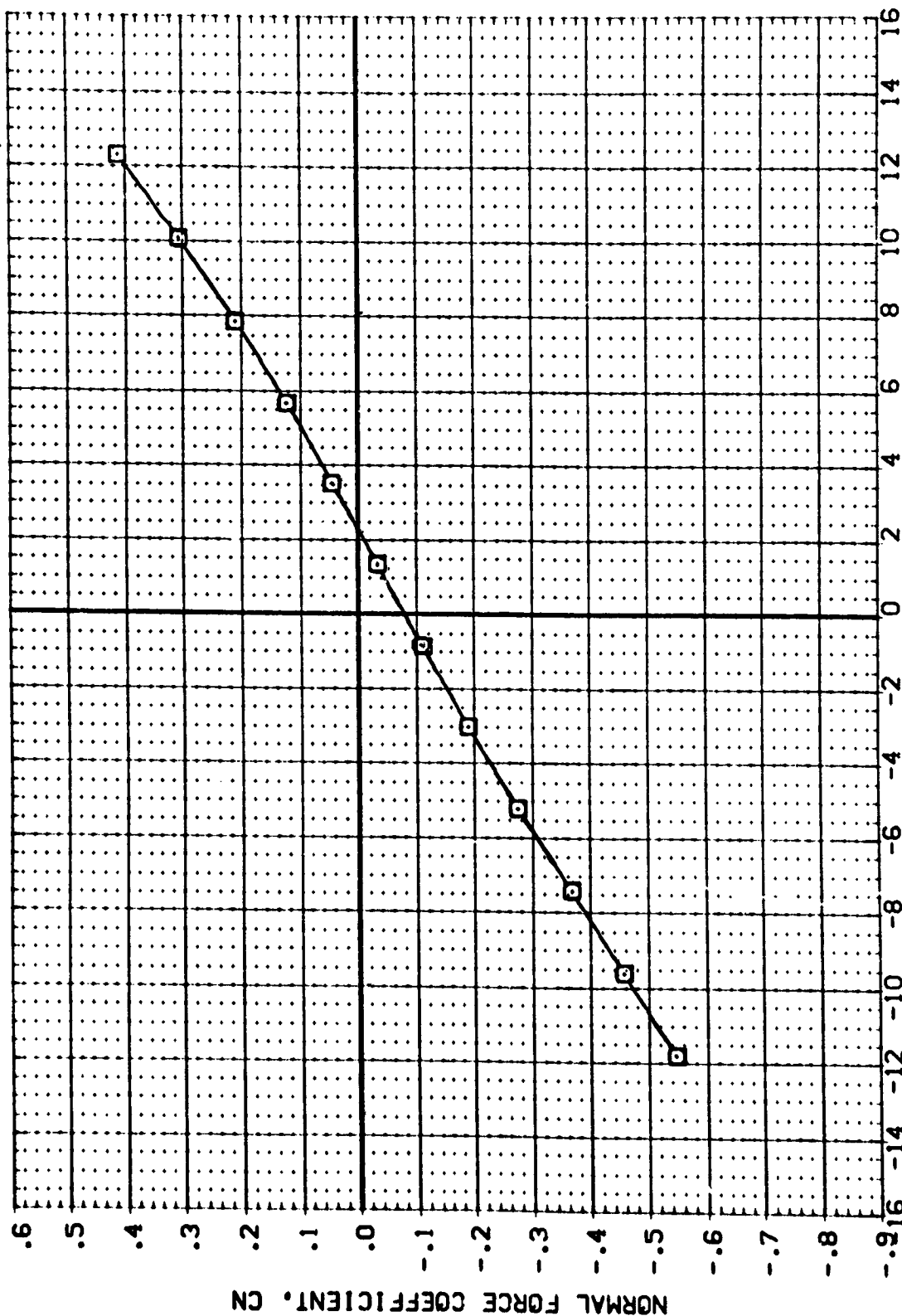
(C)MACH = 2.86

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (M05012) LRC JUNT 1056/1073 1A42A/B

BETA RUDDER
 .000 .000
 .000 .000

TIPISIP201
 TIPISIP201FRI

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1230.3000 INCHES
 BREF 1230.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 INCHES



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

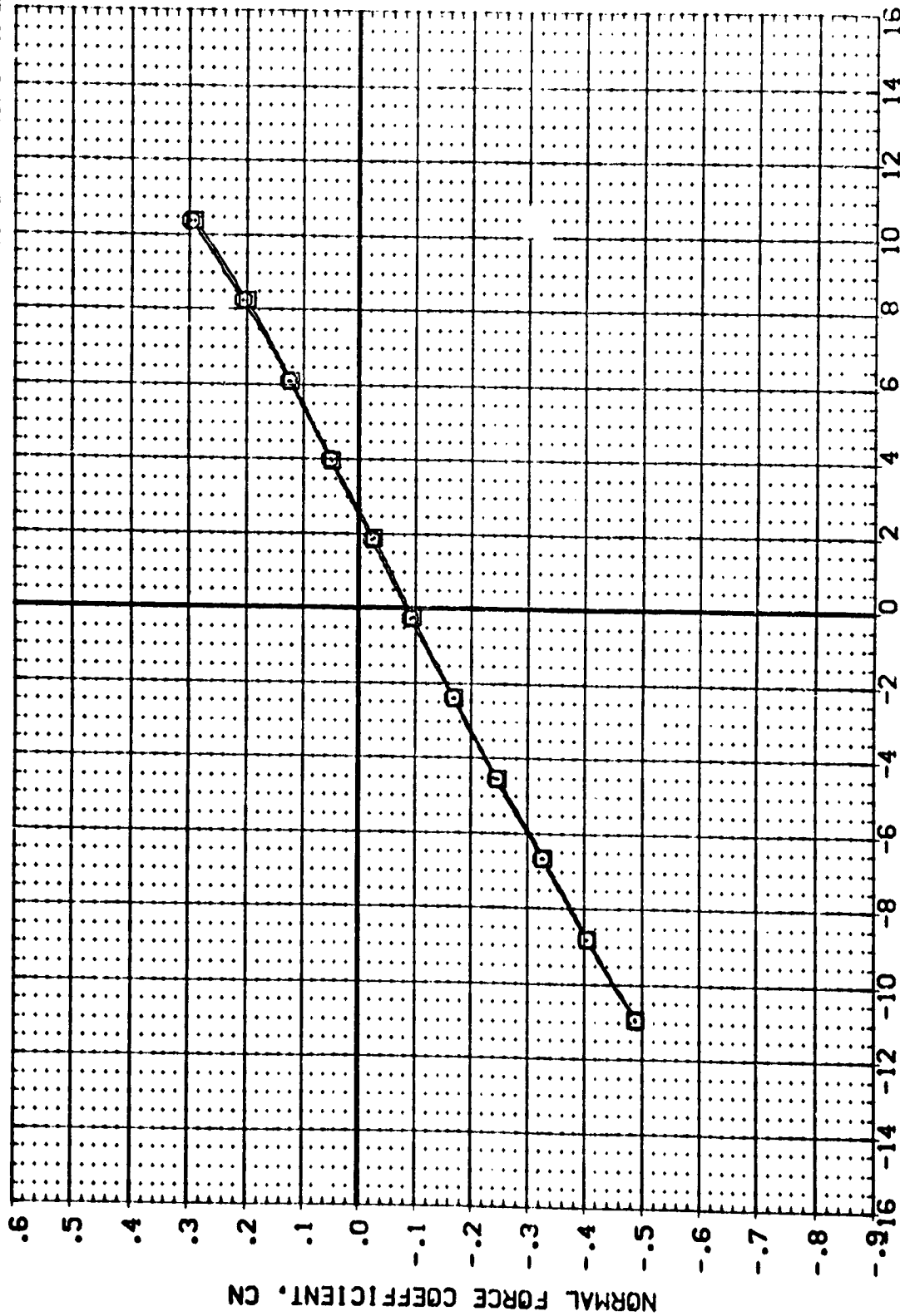
(O)MACH = 3.90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (H05012) 8 LRC UPVT 1056/1073 1A42A/B

TIP:IP201
 TIP:IP201FRI

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

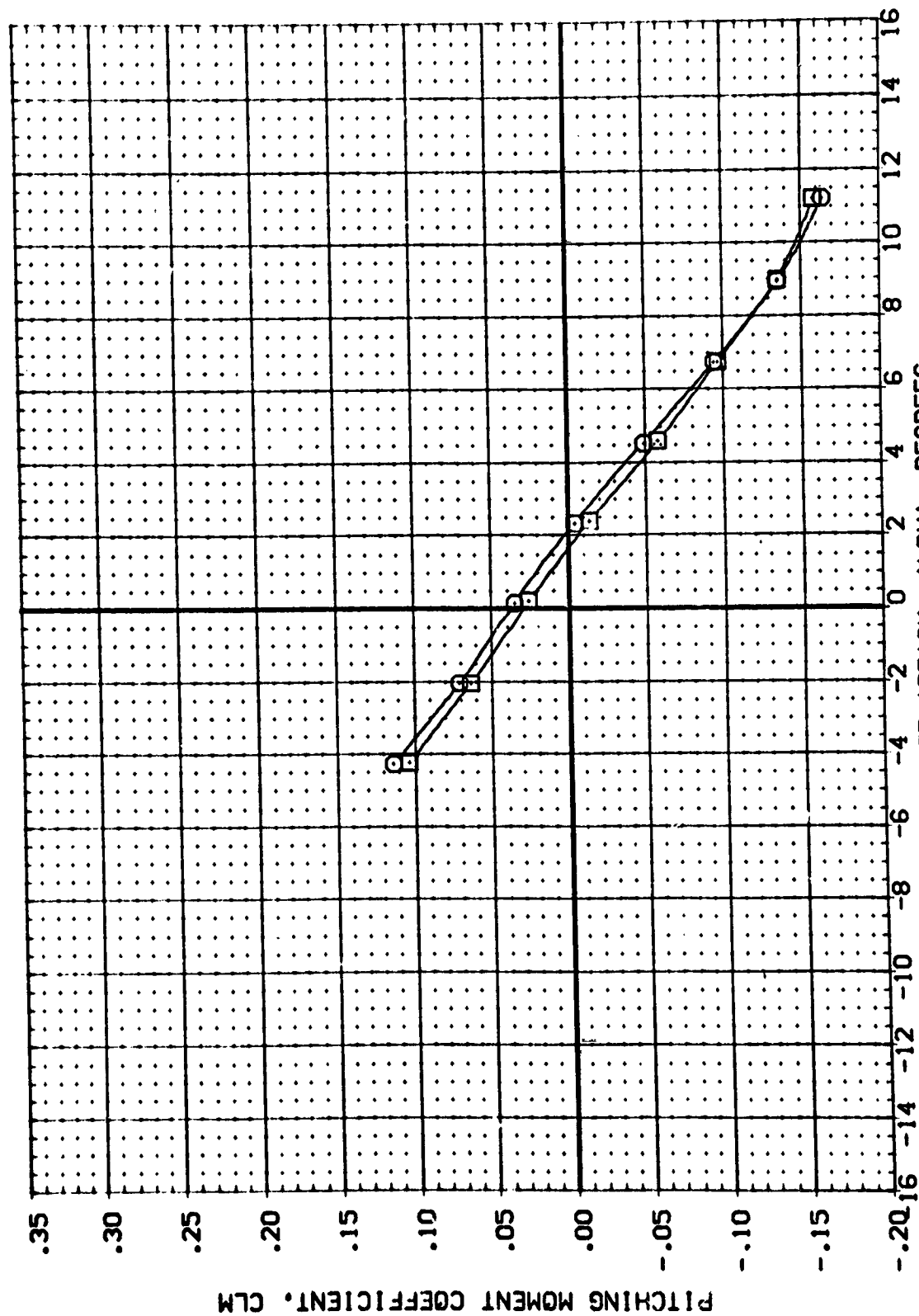
DATA SET SYMBOL
(H050071)
(H050121)

CONFIGURATION DESCRIPTION
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LRC UPVT 1056/1073 1A42A/B

BETA
.000
.000

TIPISIP201
TIPISIP201FRI

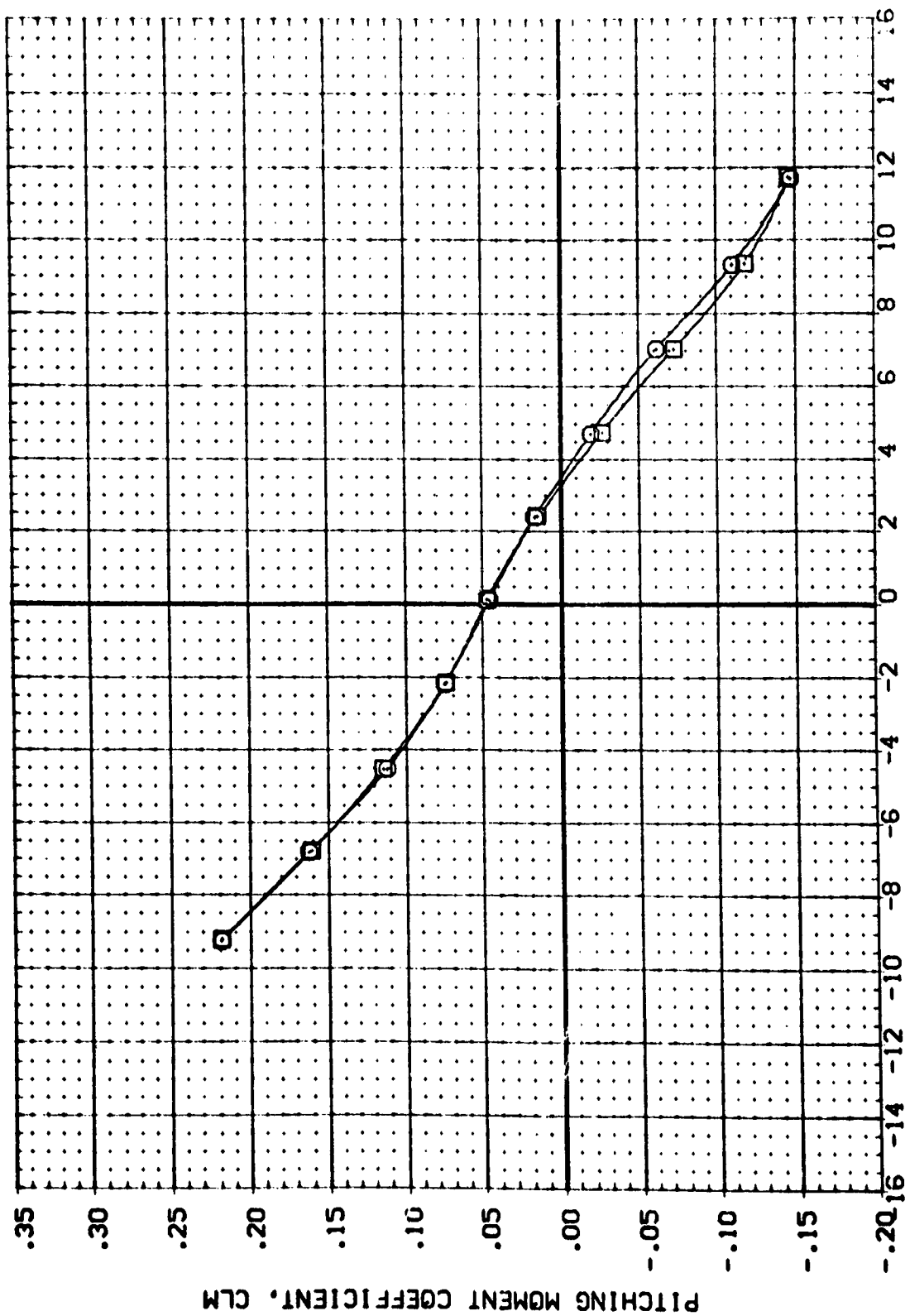
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LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(M06007)	LRC UPVT 1056/1073 1A12A/B	.000	.000	SREF 2690.0000 SQ. FT.
(M06012)	LRC UPVT 1056/1073 1A12A/B	.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



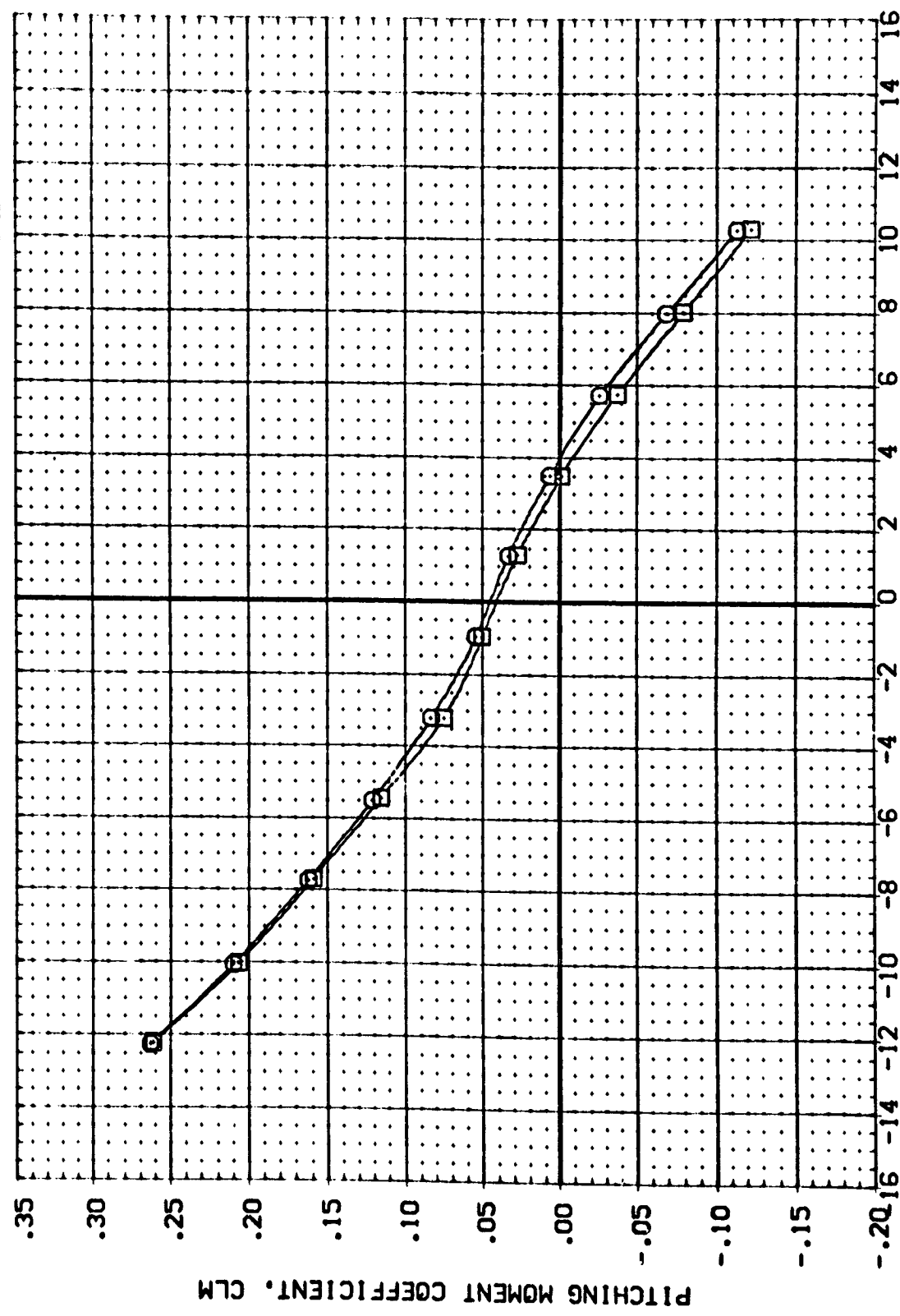
EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL: H060071
 CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42A/B
 REFERENCE INFORMATION:
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

BETA: .000
 RUDDER: .000

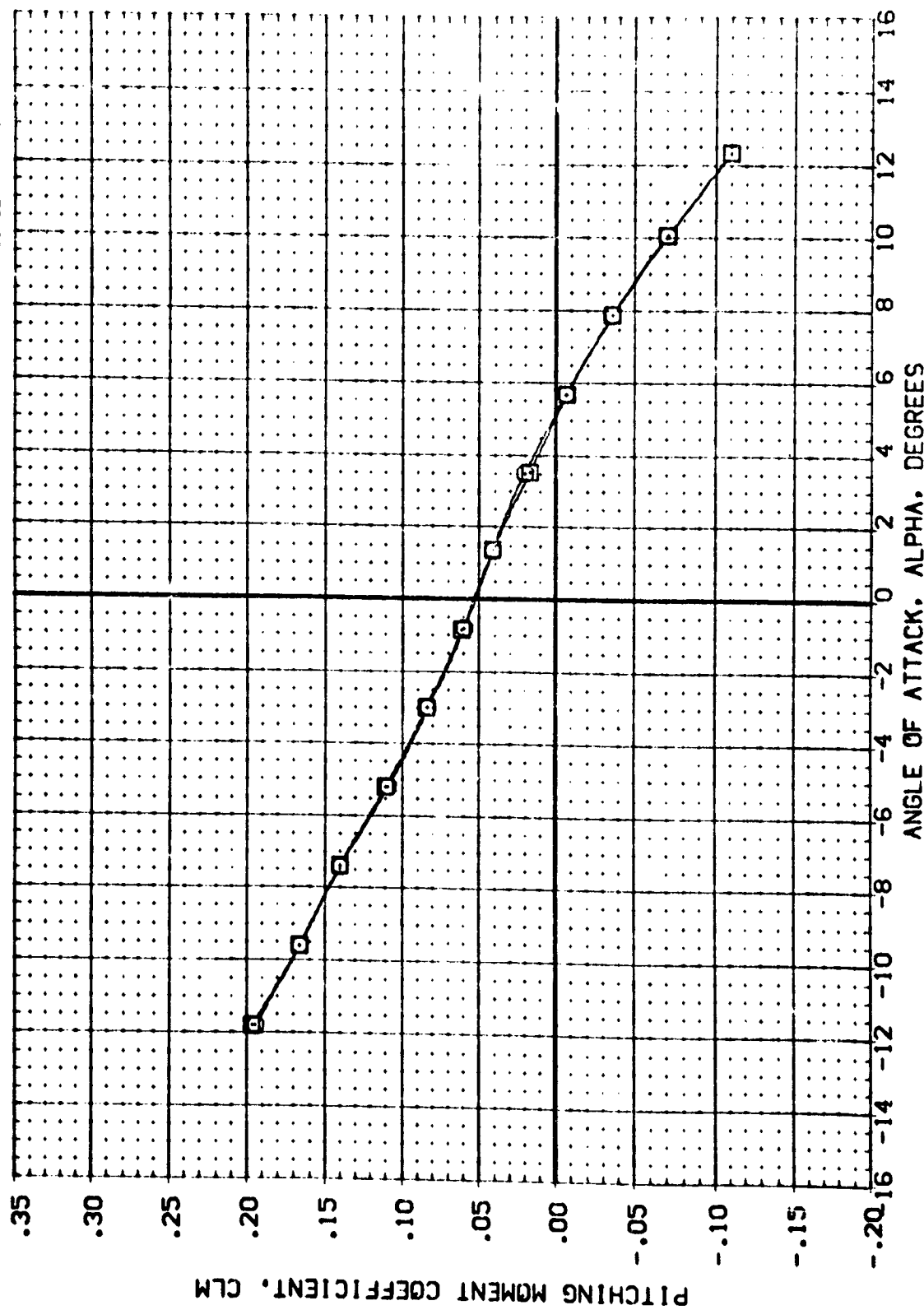
TIPISIP201
 TIPISIP201FR1



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

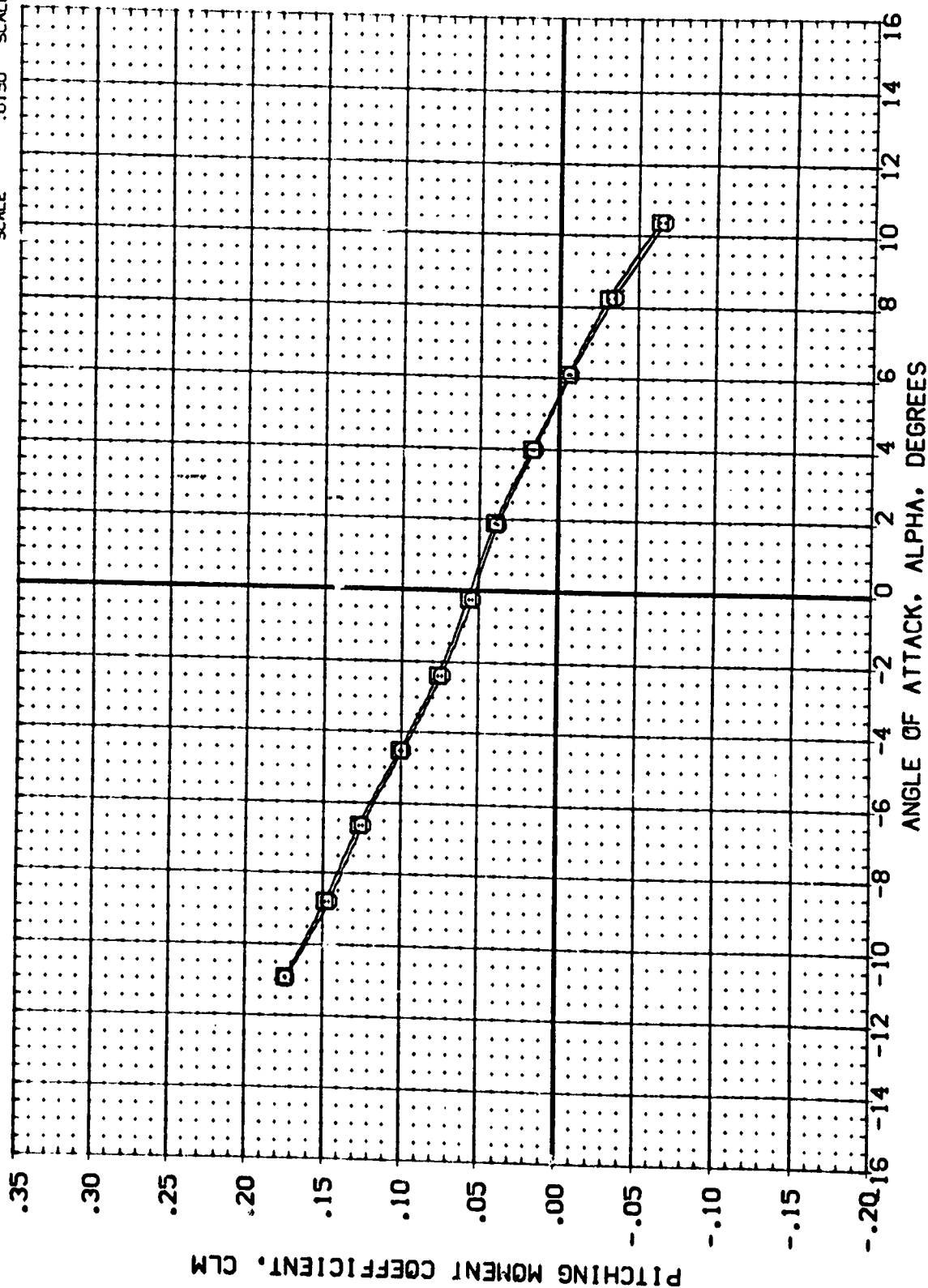
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		TIP ISIP201		BETA		RUDDER		REFERENCE INFORMATION	
(H05007)	(H05012)	LRC UPVT 10556/1073	1A42A/B	TIP ISIP201		.000	.000			SREF	2690.0000
		LRC UPVT 10556/1073	1A42A/B	TIP ISIP201PR1		.000	.000			LREF	1290.3000
										BREF	1290.3000
										XPMP	976.0000
										YMRP	.0000
										ZMRP	.0000
										SCALE	400.0000
											SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(O)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(M06007)	LRC UPWT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 50. FT.
(HJ6012)	LRC UPWT 1056/1073 1A42A/B	.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

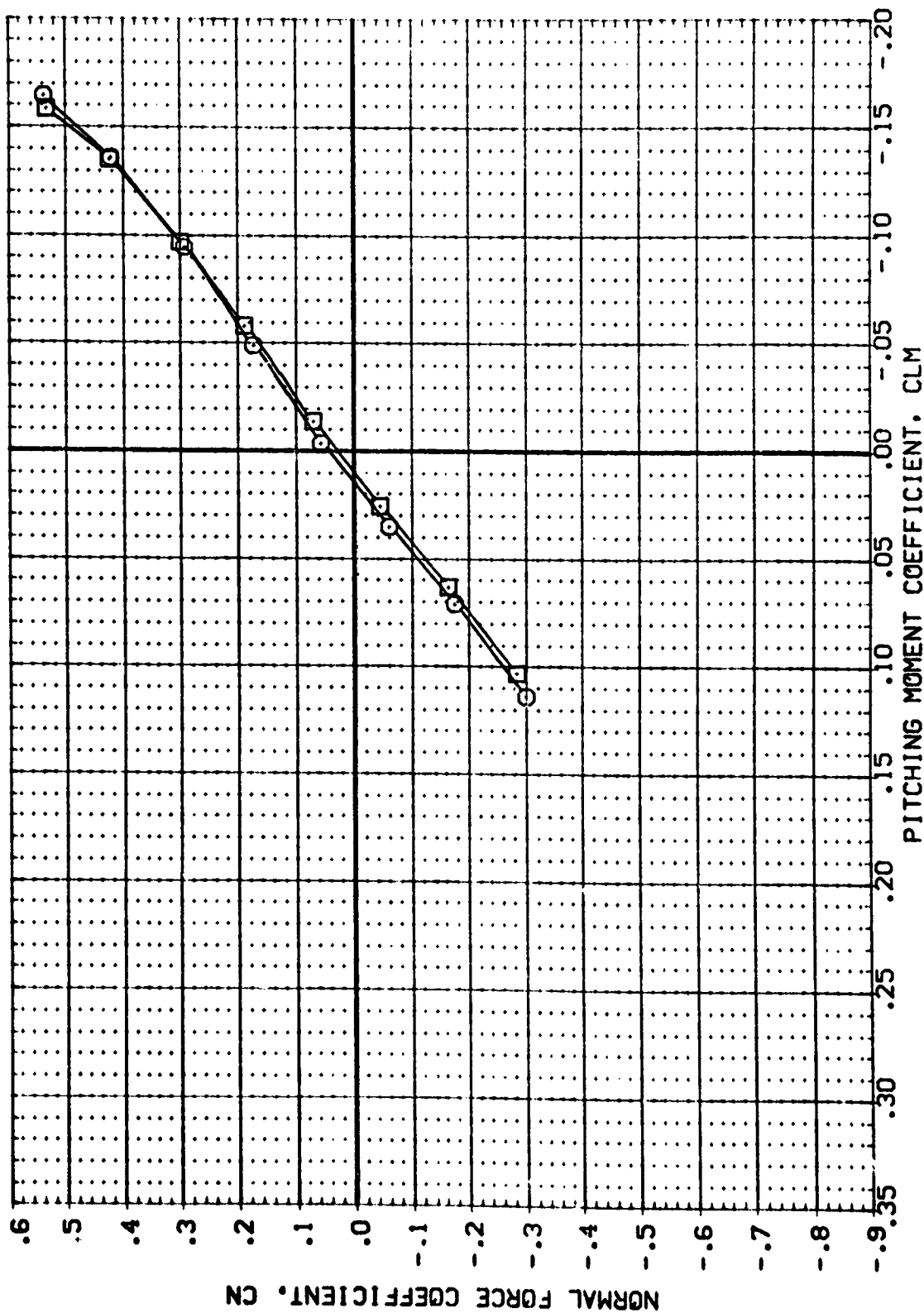
(E)MACH = 4.63

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (+06007) 8 LRC UPVT 1056/1073 1A42A/B
 (+06012) 8 LRC UPVT 1056/1073 1A42A/B

TIPISIP201
 TIPISIP201FRI

BETA RUDDER
 .000 .000
 .000 .000

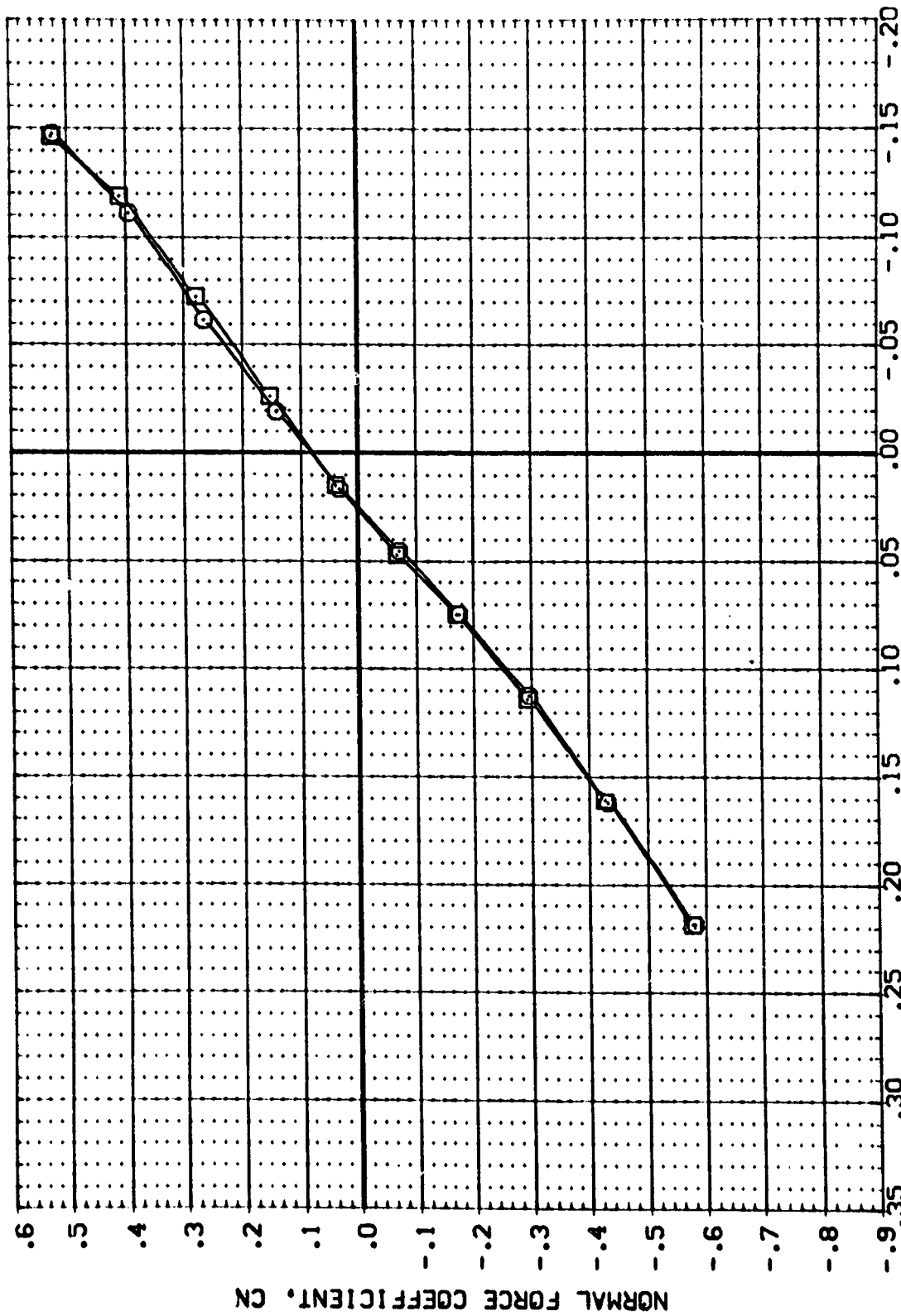
REFERENCE INFORMATION
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 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(M06007)	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 50. FT.
(M06012)	LRC UPVT 1056/1073 1A42A/B	.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP 0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150

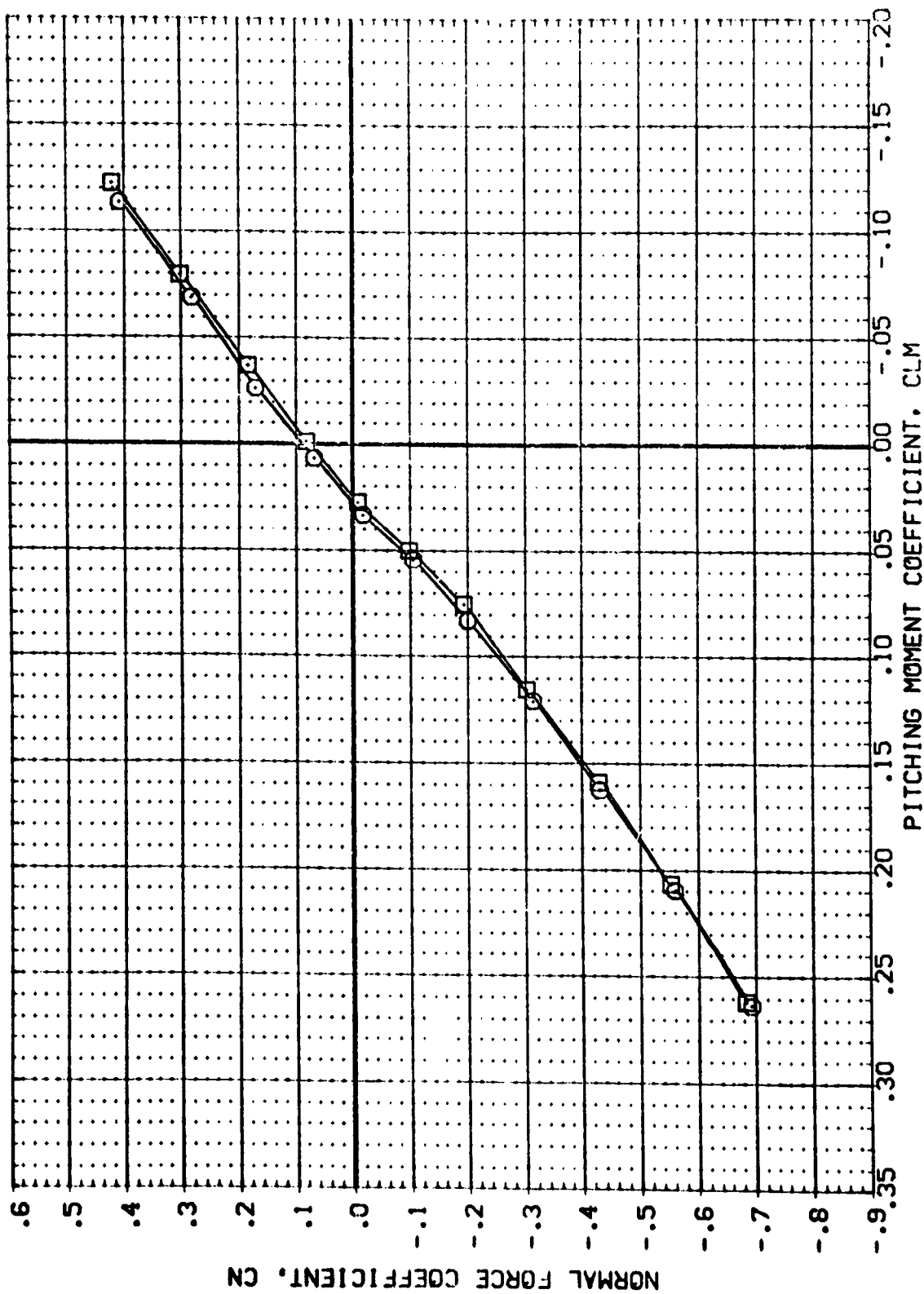


PITCHING MOMENT COEFFICIENT, CLM

EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

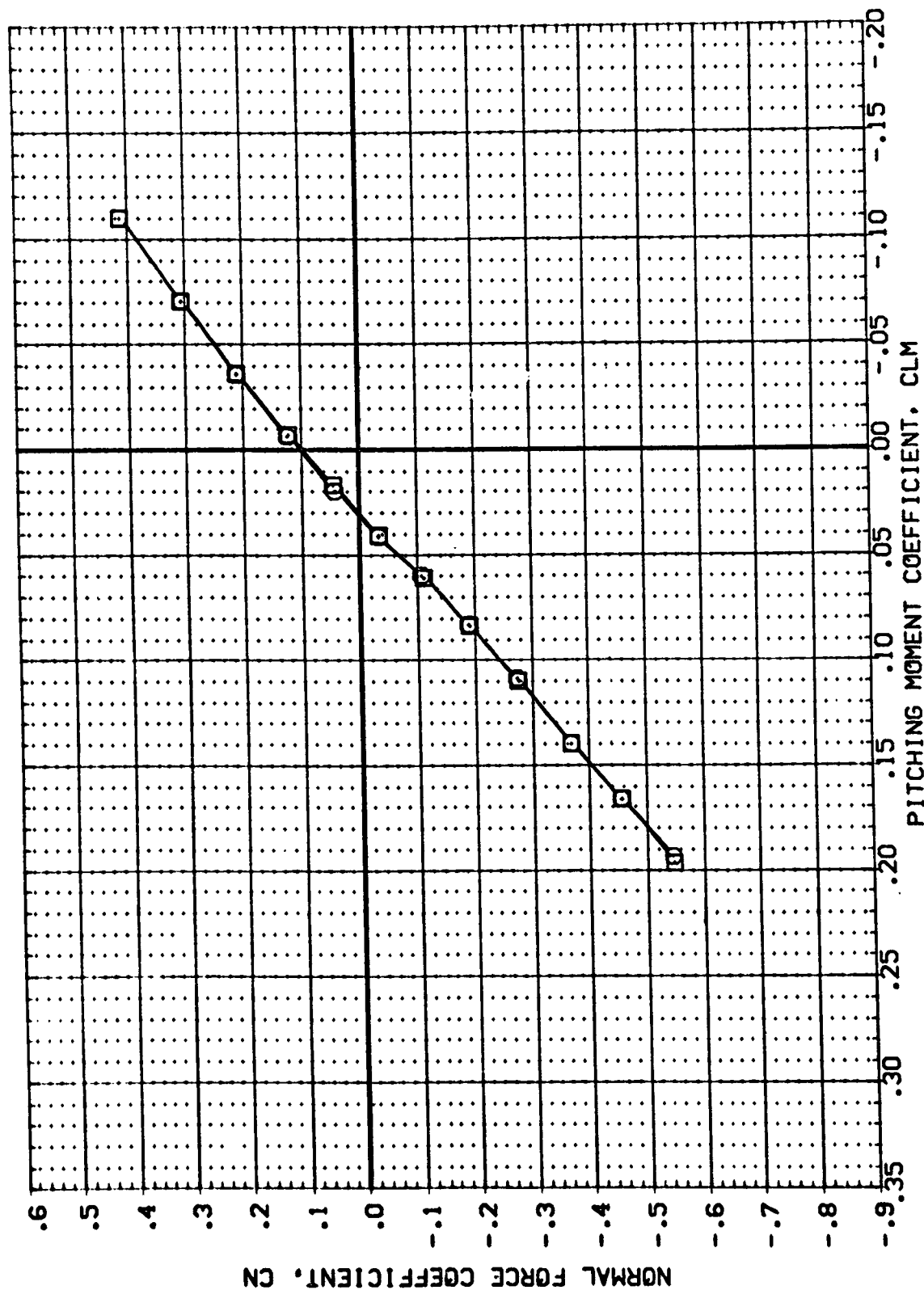
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(M06007)	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 SQ.FT.
(M06012)	LRC UPVT 1056/1073 1A42A/B	.000	.000	LREF 1280.3000 INCHES
				BREF 1250.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

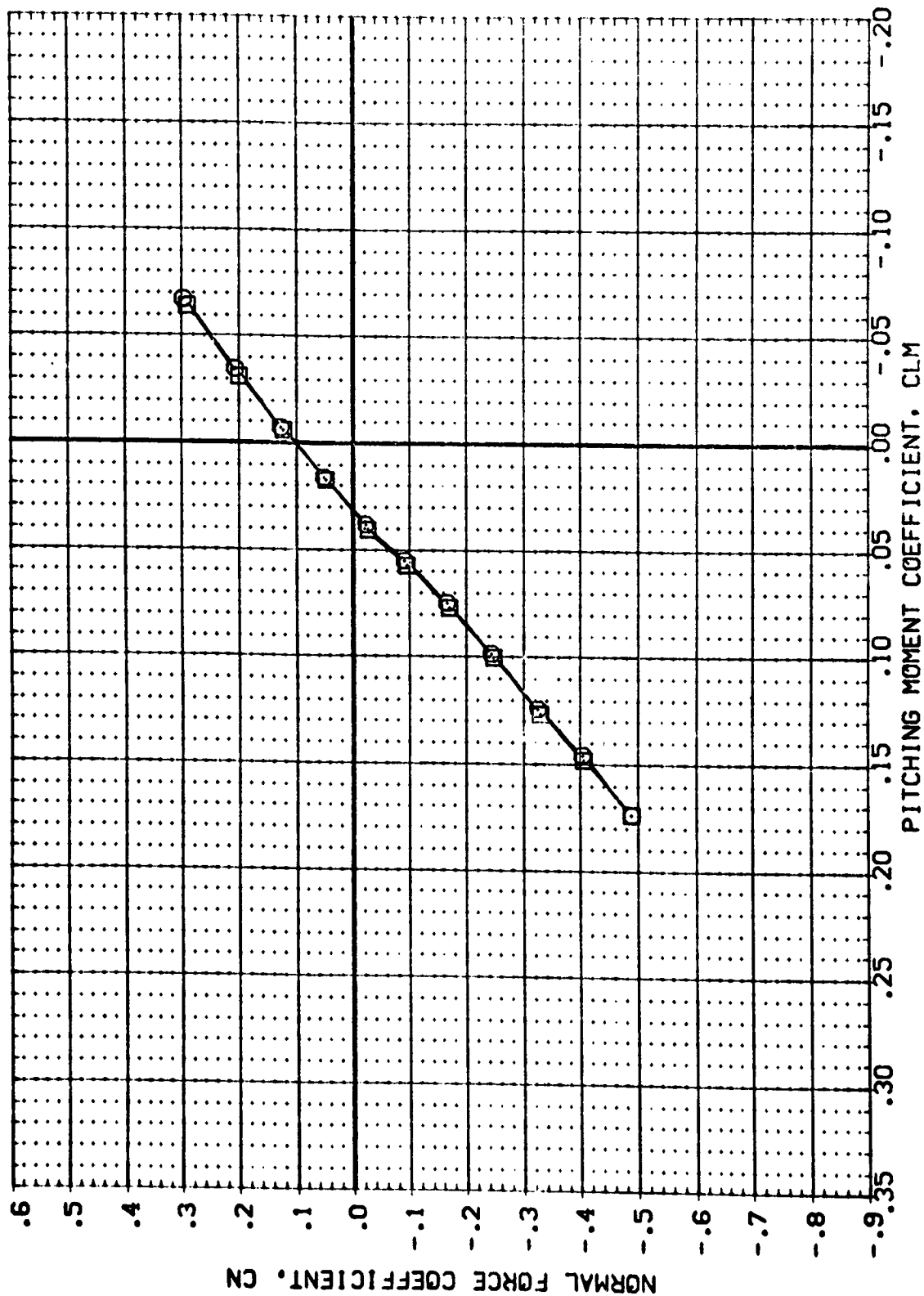
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(M06007)	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 SO.FT.
(M06012)	LRC UPVT 1056/1073 1A42A/B	.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP 400.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05007)	LRC UPVT 1056/1073 1A2A/B	.000	.000	SREF 2690.0000 50. FT.
(H05012)	LRC UPVT 1056/1073 1A2A/B	.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

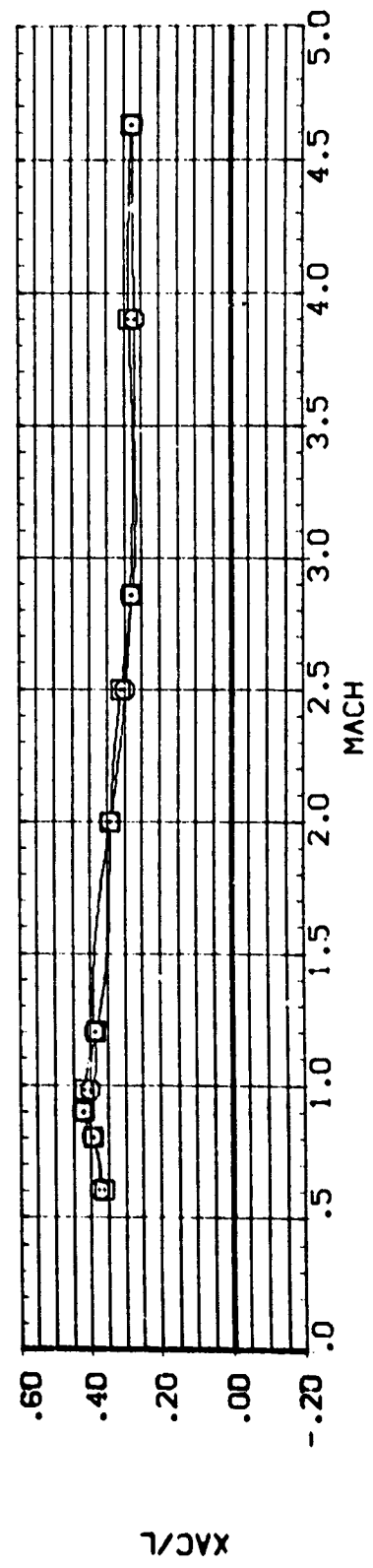
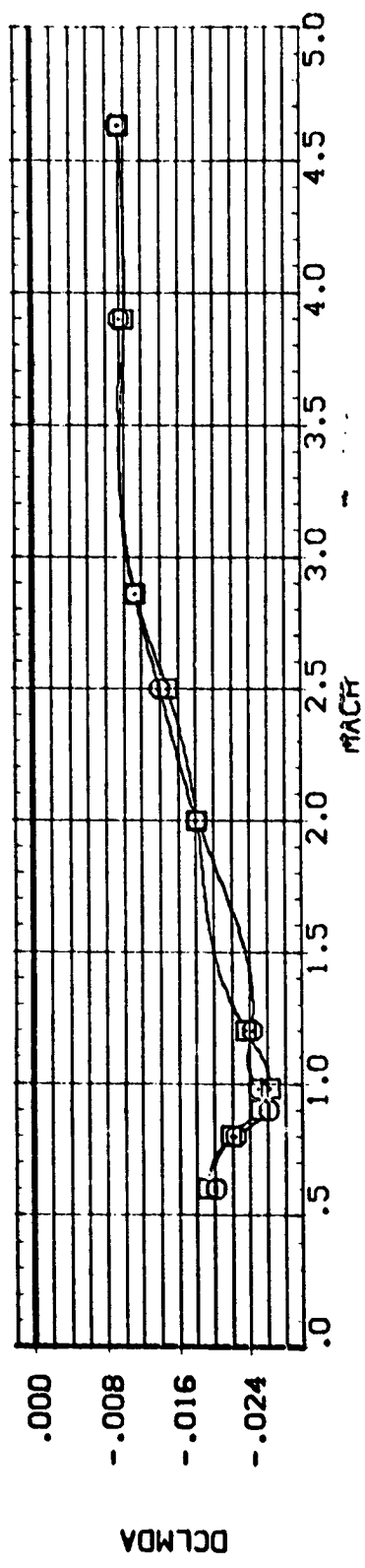
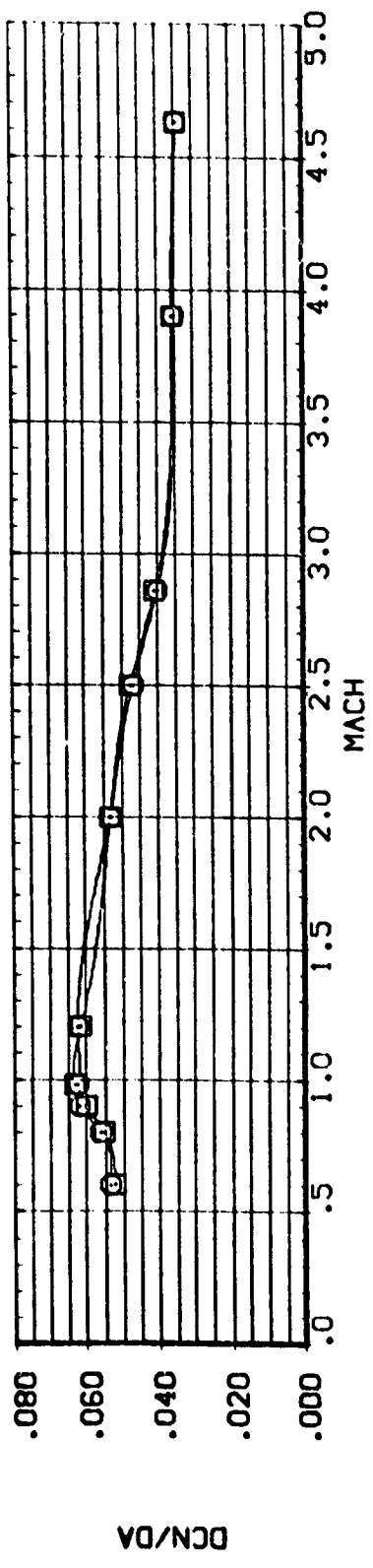
(E)MACH = 4.63

PAGE 146

DATA SET SYMBOL: **2**
 (D05007)
 (D22012)
 CONFIGURATION DESCRIPTION:
 LRC 8 TPT 667 [A4] T1P1S1P201
 LRC 8 TPT 667 [A4] T1P1S1P201FR1

REFERENCE INFORMATION:
 SREF 2650.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

BETA: .000
 RUDDER: .000

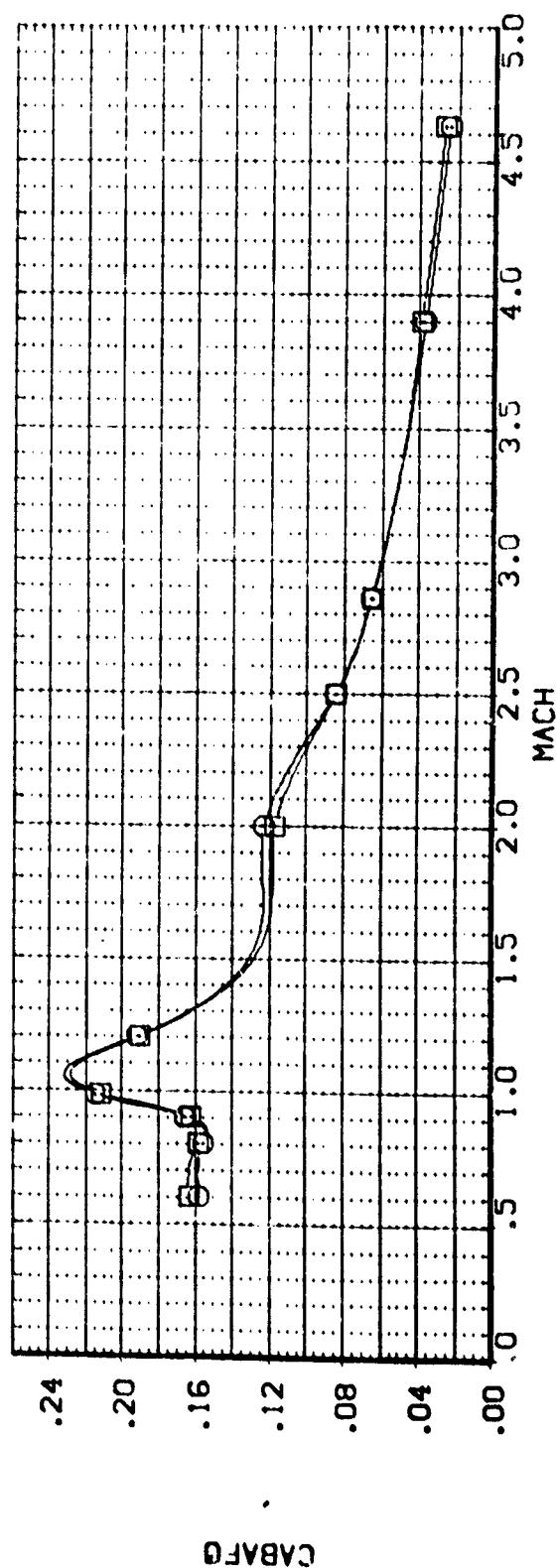
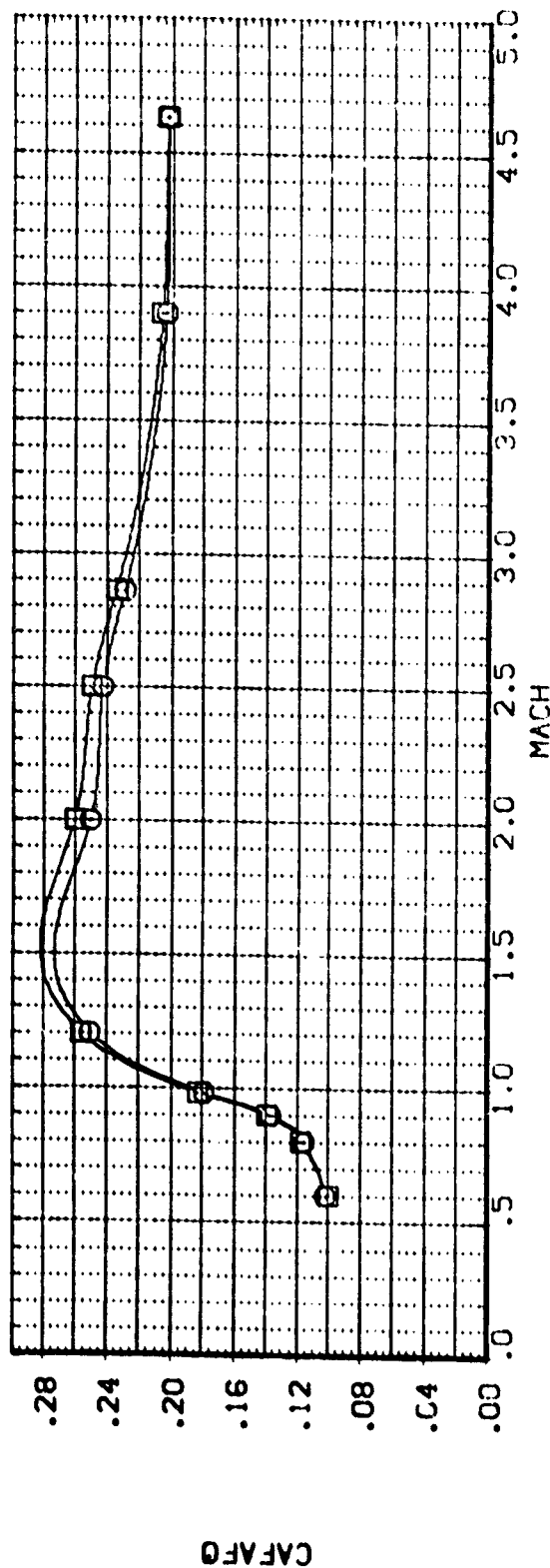


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E05007) LRC 8 TPT 667 [A4] TIPISIP201
 (E06012) LRC 8 TPT 667 [A4] TIPISIP201FR1

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0125

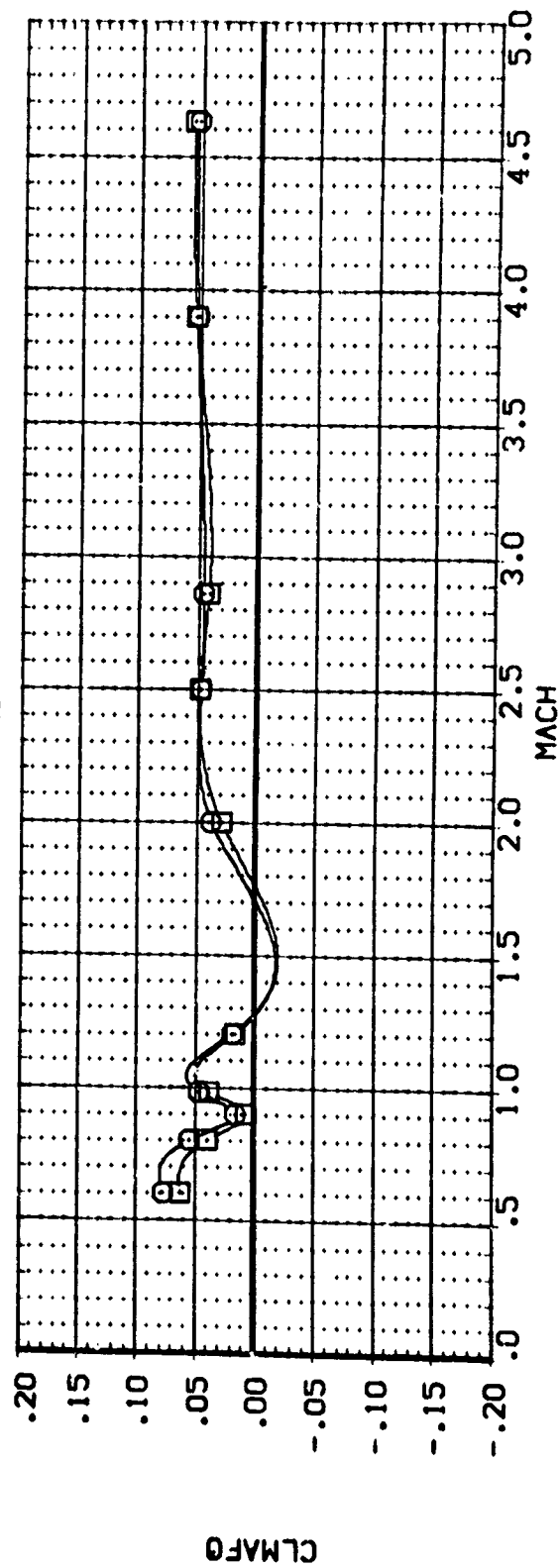
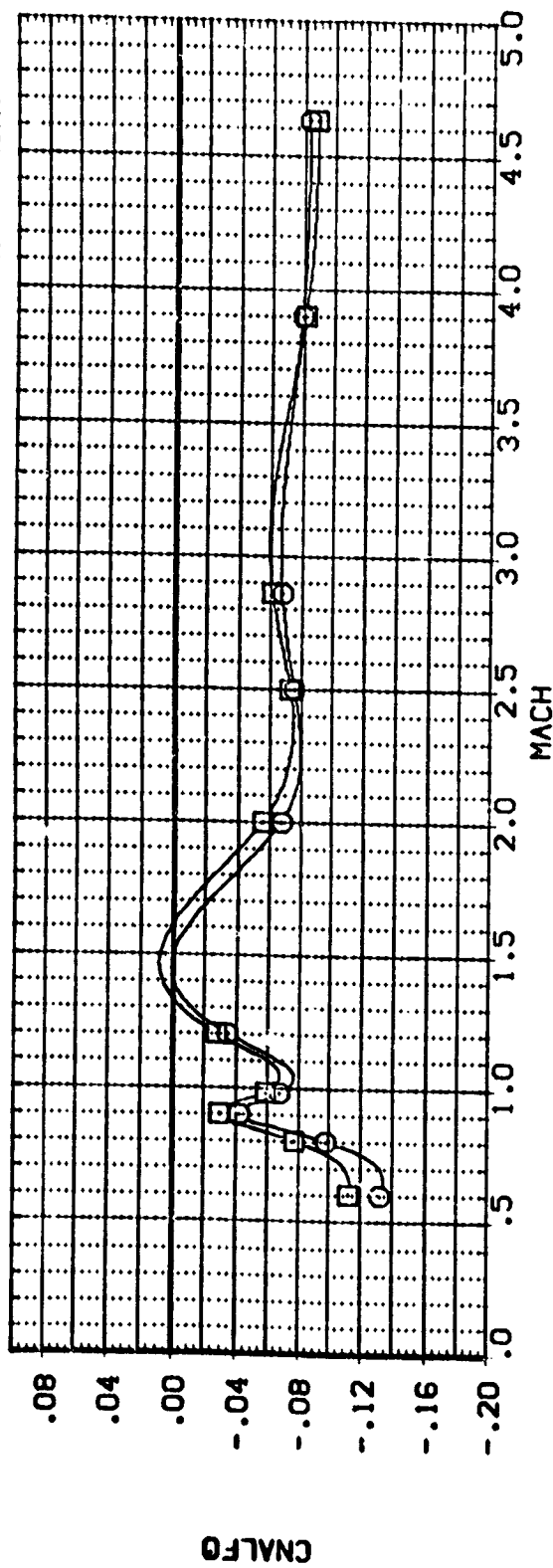


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (E06012) LRC 8 TPT 667 1A41 TIPISIP201FR1

BETA RUDDER
 .000 .000
 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL
(H05008)
(D05013)

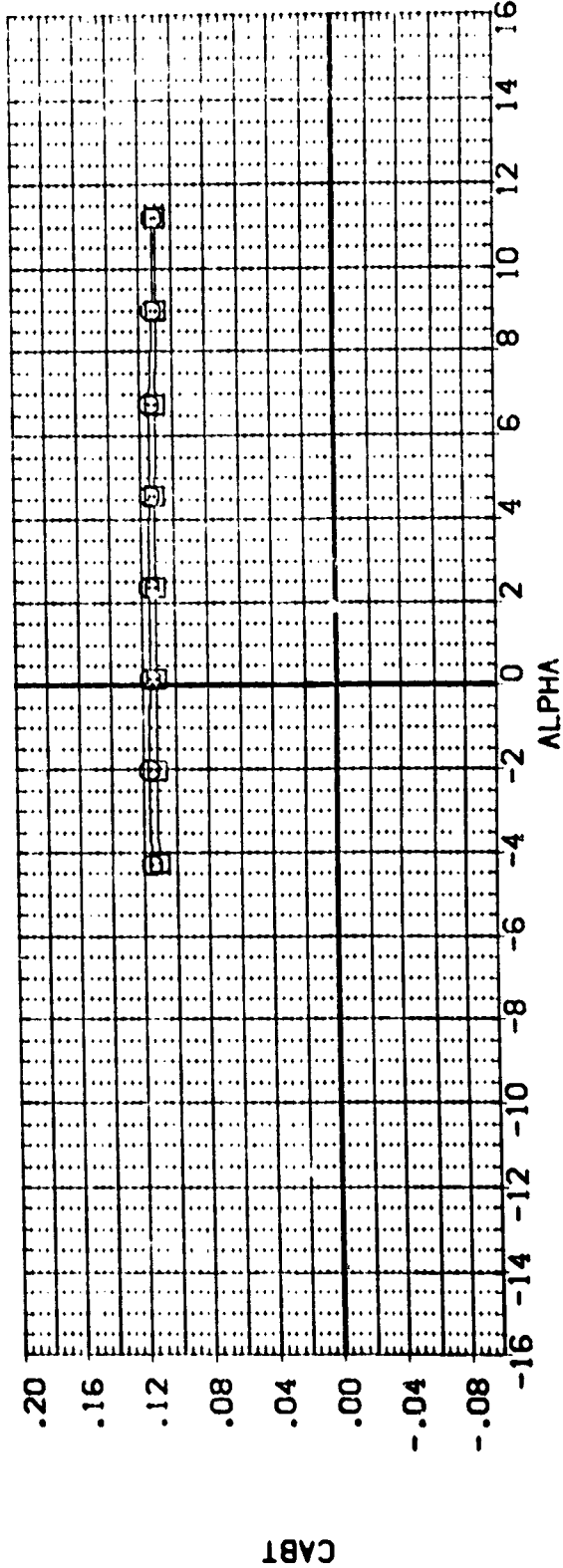
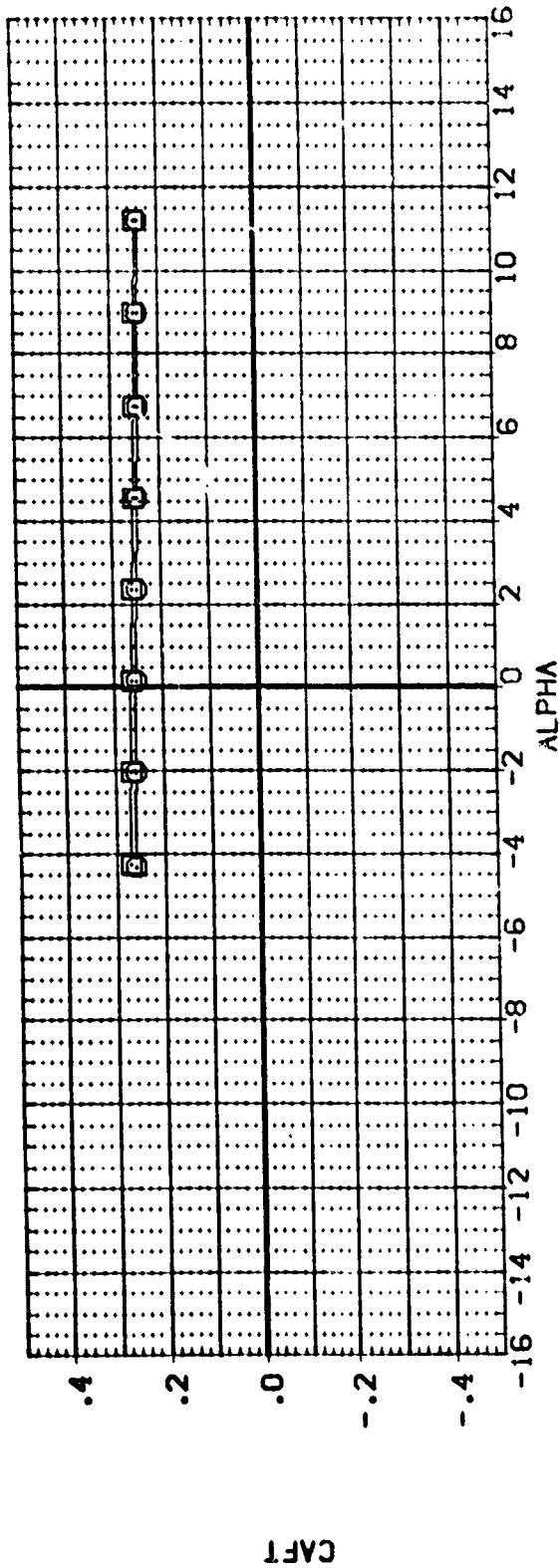
CONFIGURATION DESCRIPTION
LRC UPVT 1056/1073 1A42A/B
LRC UPVT 1056/1073 1A42A/B

TIPISIP201
TIPISIP201FRI

BETA
5.000
5.000

RUDDER
.000
.000

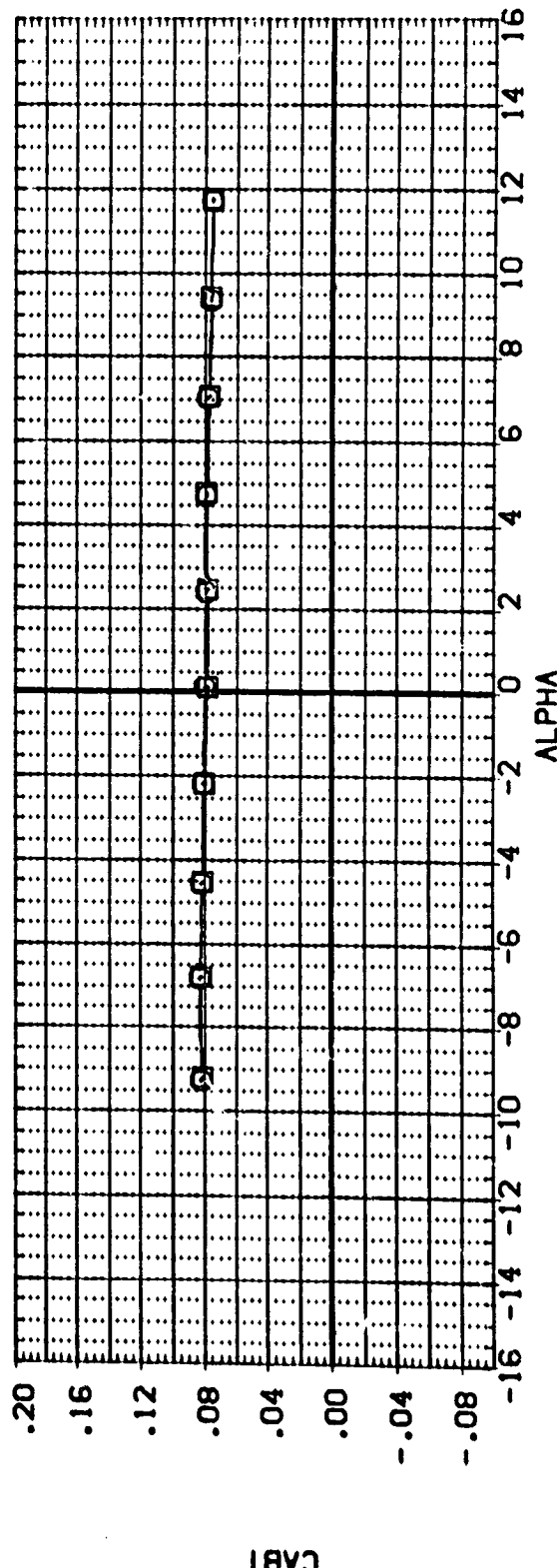
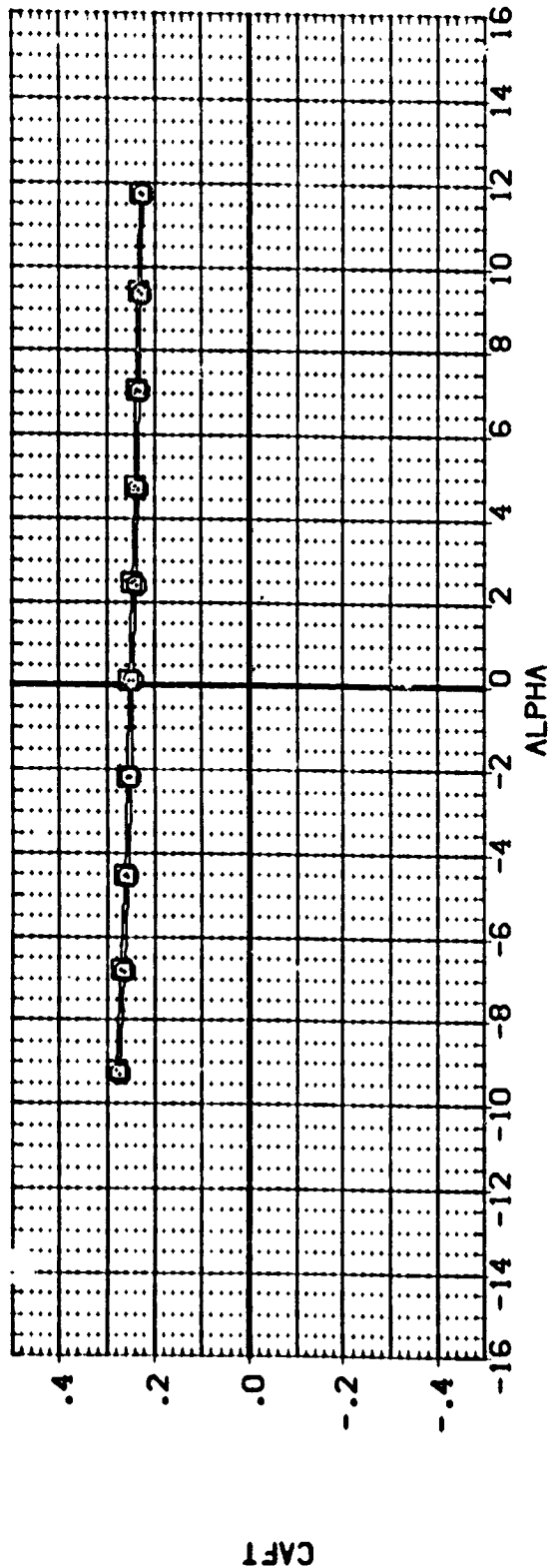
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LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 400.0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05008)	LRC LPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SQ.FT.
(D06013)	LRC LPVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				YMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL: (MCG008) (D06013)

CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42A/B, LRC UPVT 1056/1073 1A42A/B

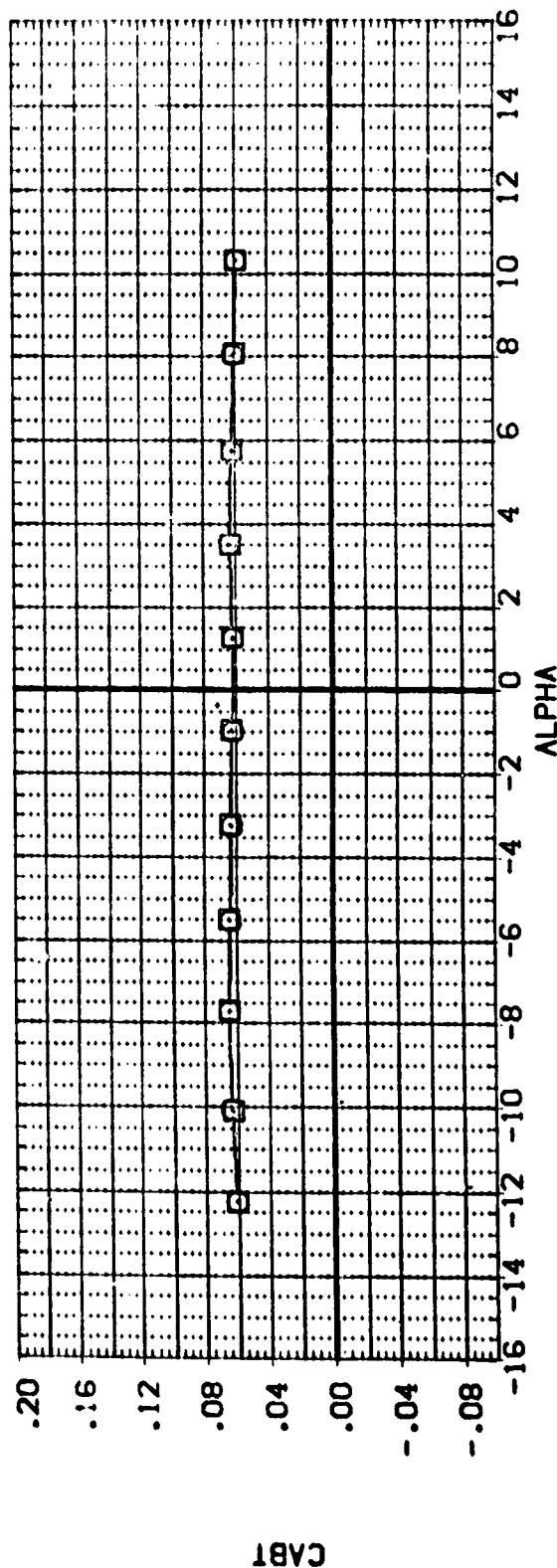
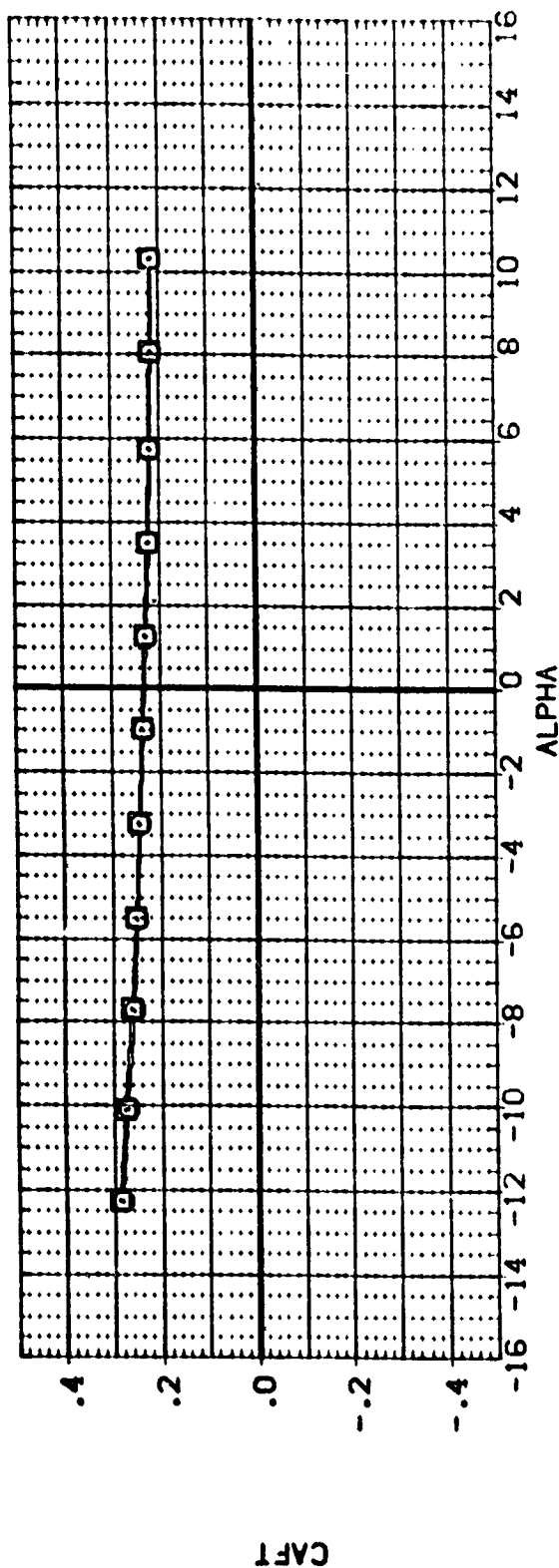
TIPISIP201, TIPISIP201FRI

BETA: 5.000, 5.000

RUDDER: .000, .000

REFERENCE INFORMATION:

	SO. FT.	INCHES
SREF	2690.0000	
LREF	1290.3000	
BREF	1290.3000	
YMRP	976.0000	
ZMRP	.0000	
SCALE	400.0000	
		.0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(CJ)MACH = 2.86

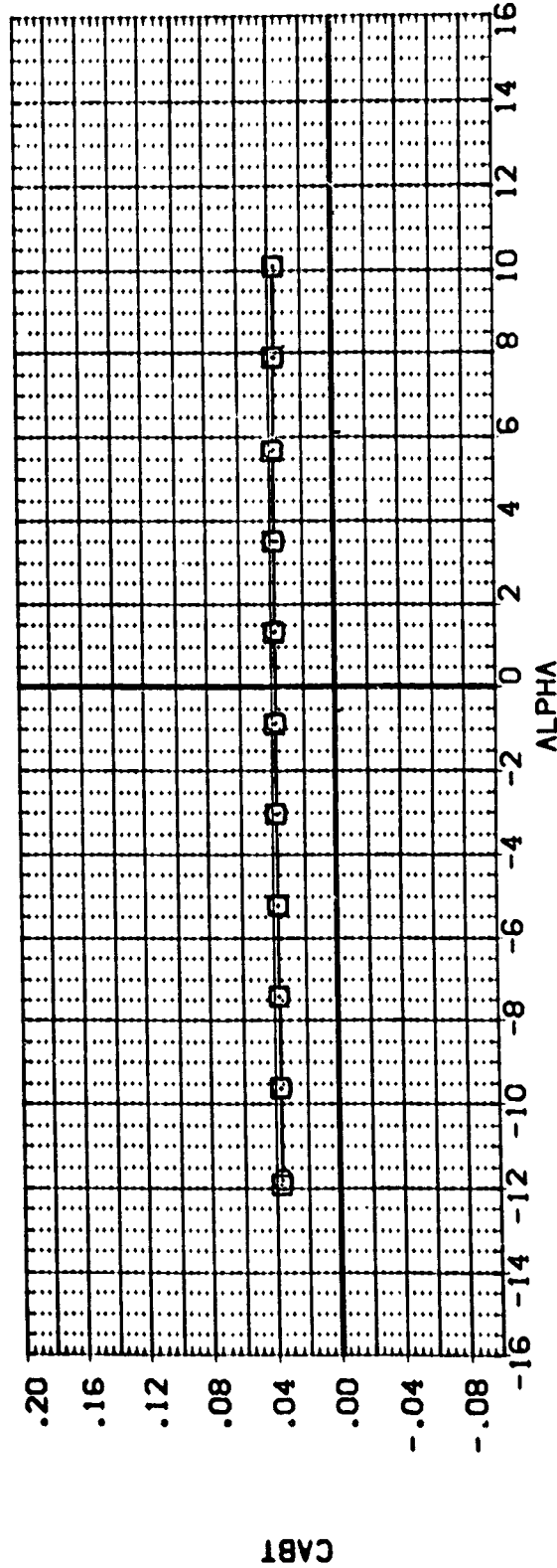
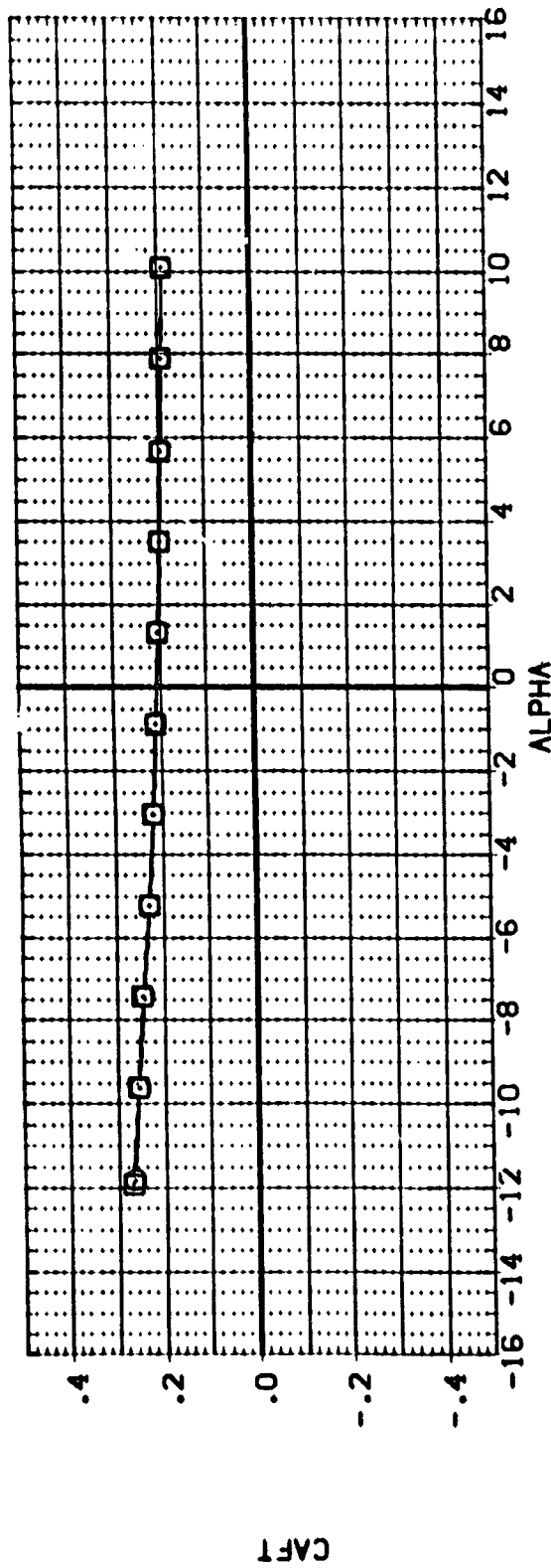
DATA SET SYMBOL
(H06008)
(D06013)

CONFIGURATION DESCRIPTION
LPC LPT 1056/1073 1A42A/B
LPC LPT 1056/1073 1A42A/B

TIPISIP20I
TIPISIP20IFRI

BETA RUDDER
5.000 .000
5.000 .000

REFERENCE INFORMATION
SREF 2690.0000 SO.FT.
LREF 1290.3070 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP .0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL
(H06008)
(D06013)

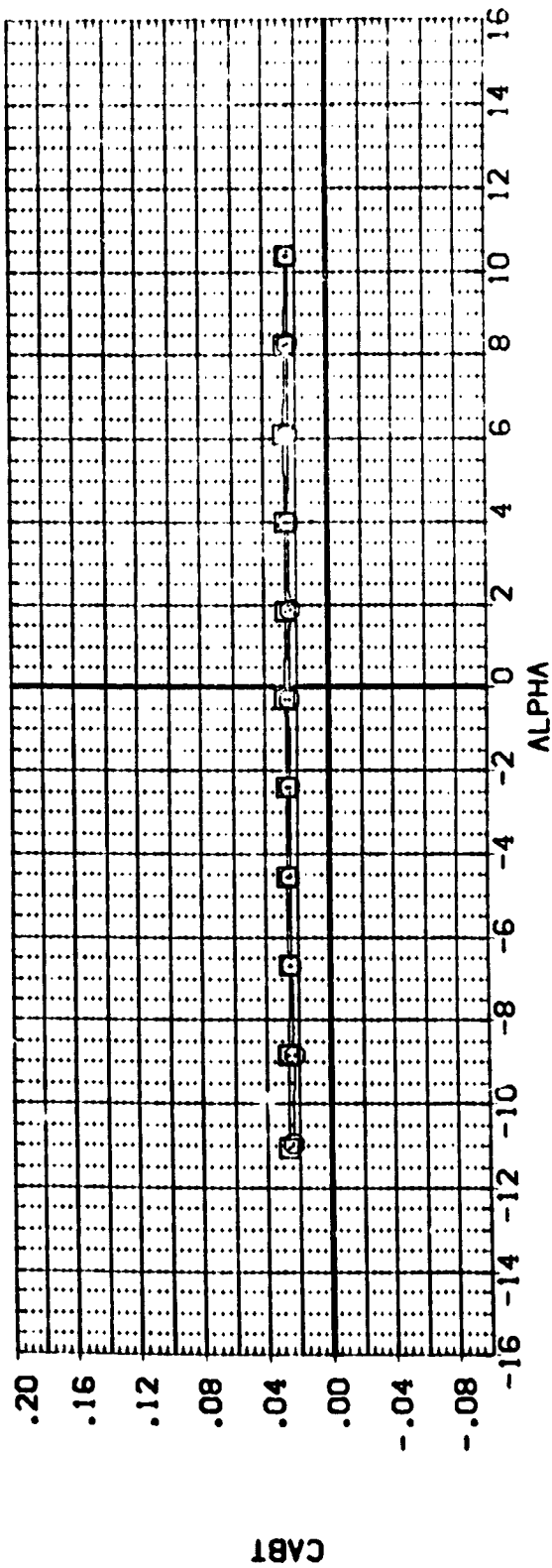
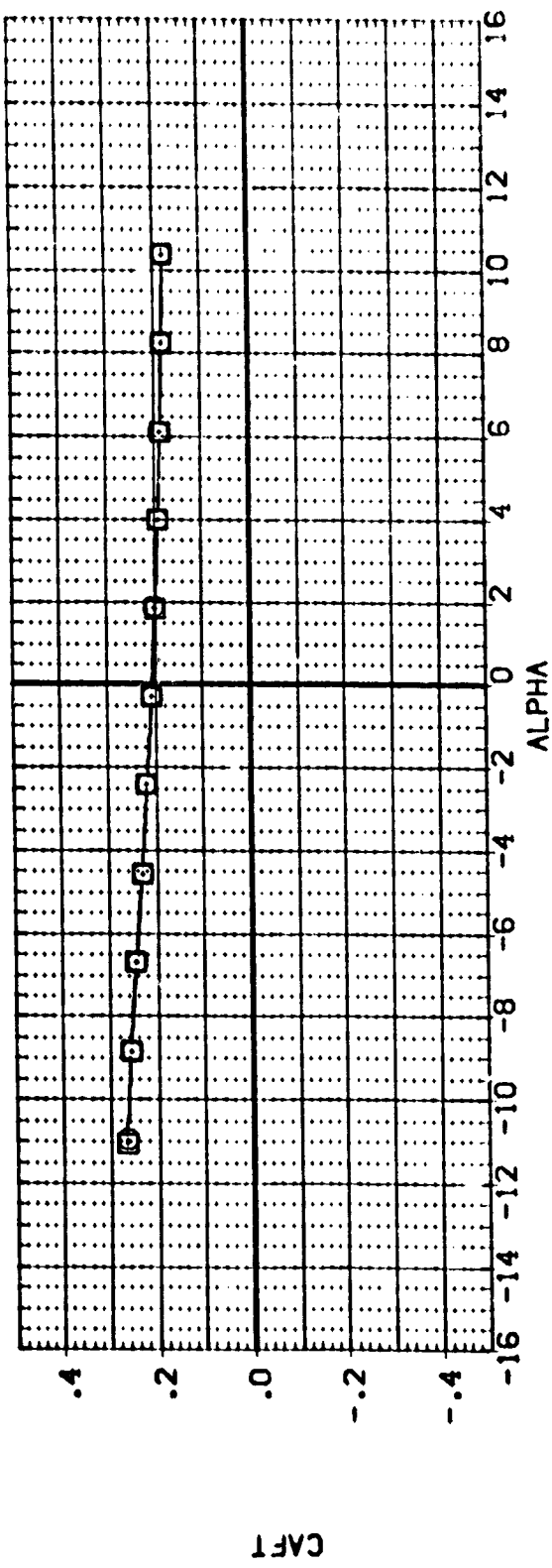
BETA
5.000
5.000

TIPISIP20I
TIPISIP20IFRI

CONFIGURATION DESCRIPTION
LRC UPVT 1056/1073 1A42A/B
LRC UPVT 1056/1073 1A42A/B

REFERENCE INFORMATION
SREF 2690.0000
LREF 1290.3000
BREF 1290.5000
XMRP 976.0000
YMRP 400.0000
ZMRP 400.0000
SCALE .0150

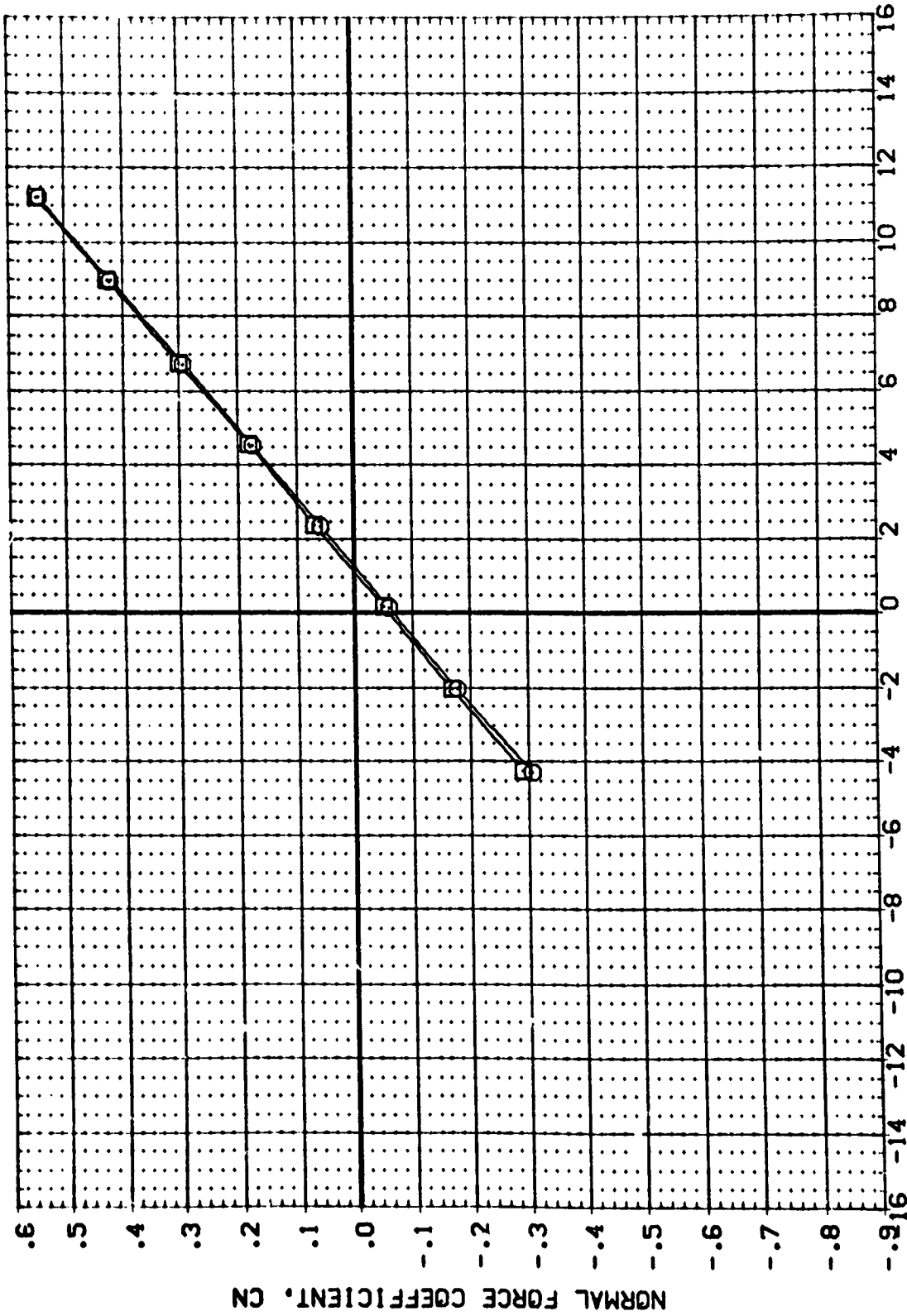
RUDDER
.000
.000



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(M05008)	LRC LPVT 1056/1073 1A42A/B
(M05012)	LRC LPVT 1056/1073 1A42A/B



ANGLE OF ATTACK, ALPHA, DEGREES

EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

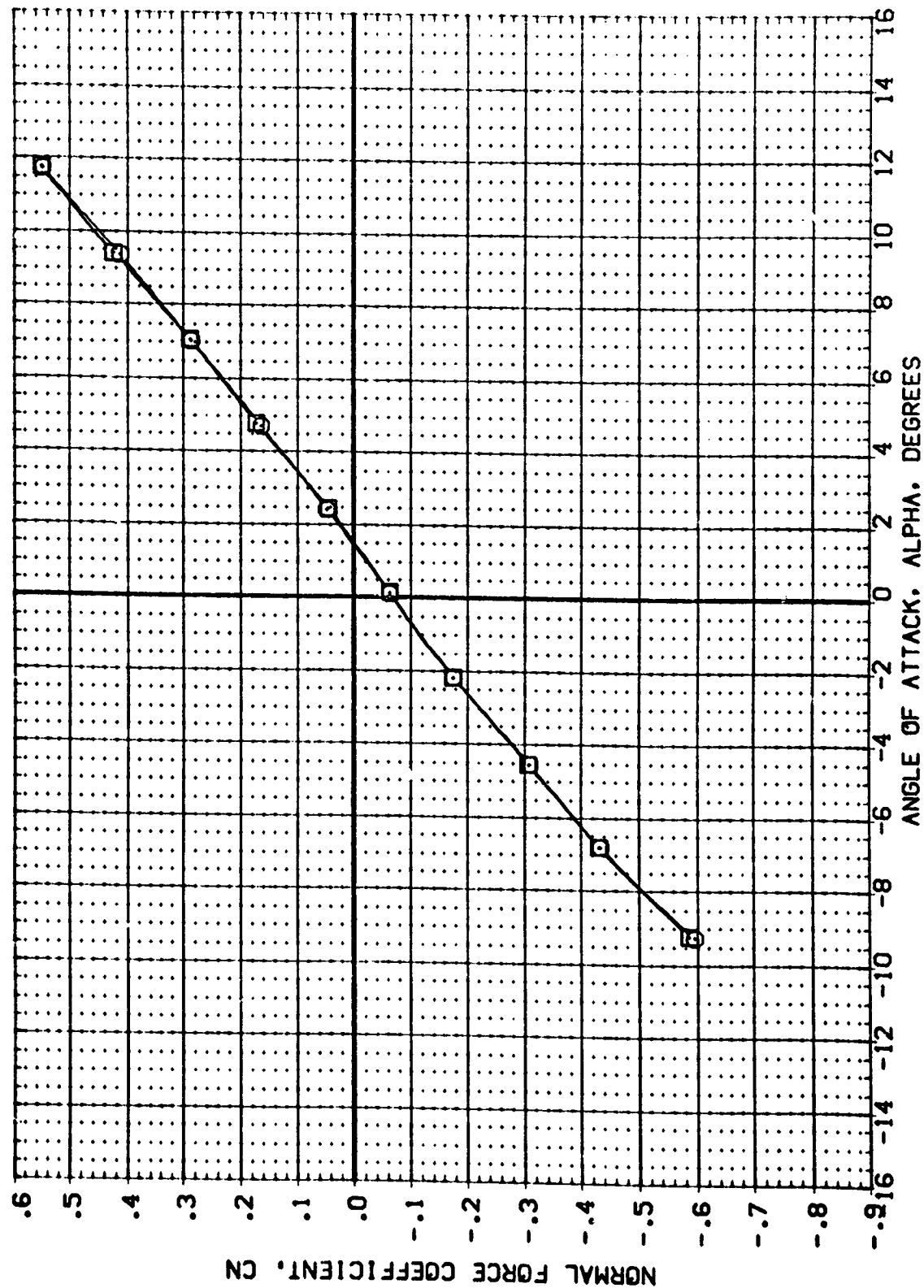
(A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (D06013)  LRC UPVT 1056/1073 1A42A/B

TIPISIP201
 TIPISIP201FR1

BETA RUDDER
 5.000 .000
 5.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

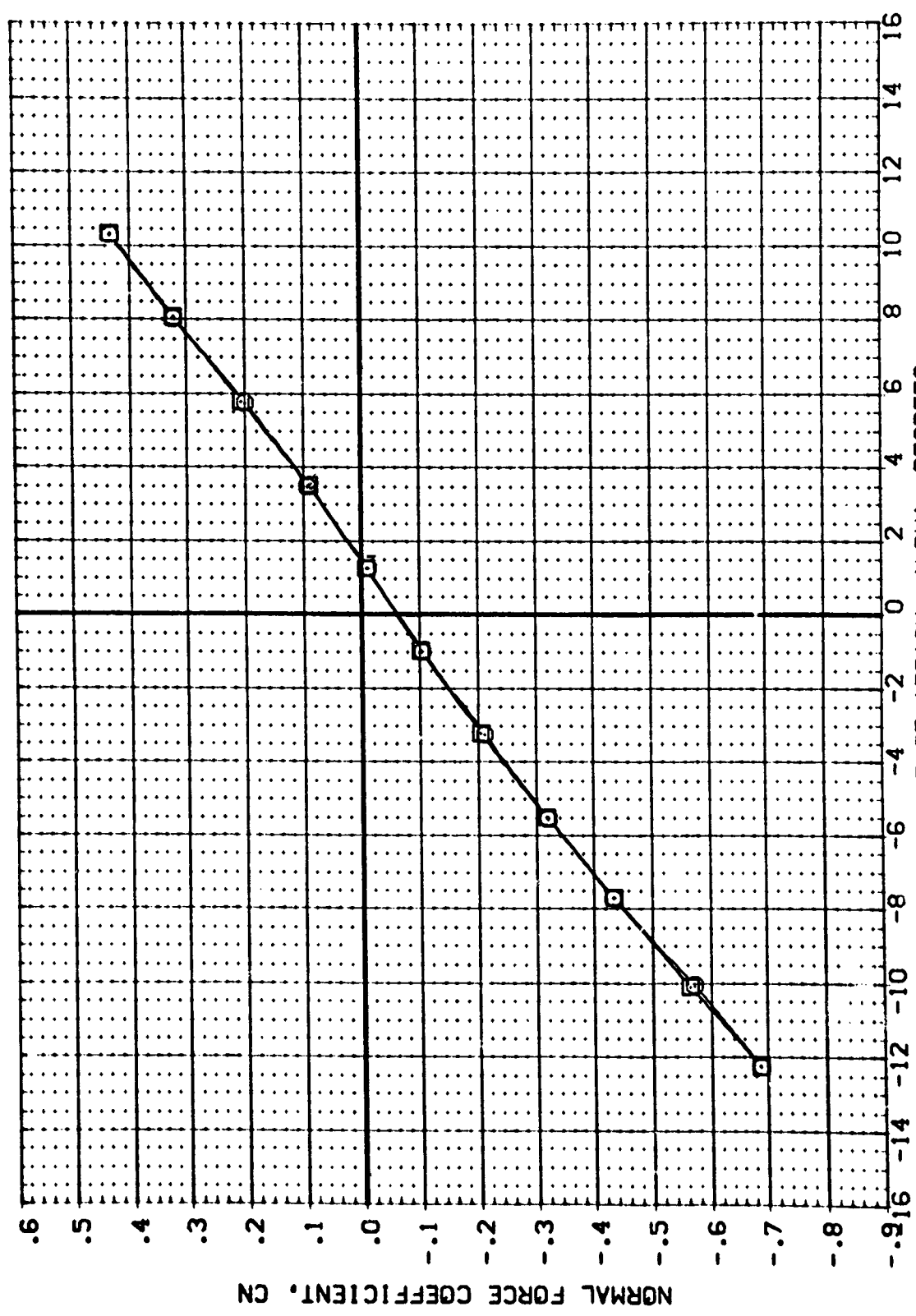


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

PAGE 156

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	R/L/J/R	REFERENCE INFORMATION
(M05008)	LRC J-PVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SQ. FT.
(C06013)	LRC J-PVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

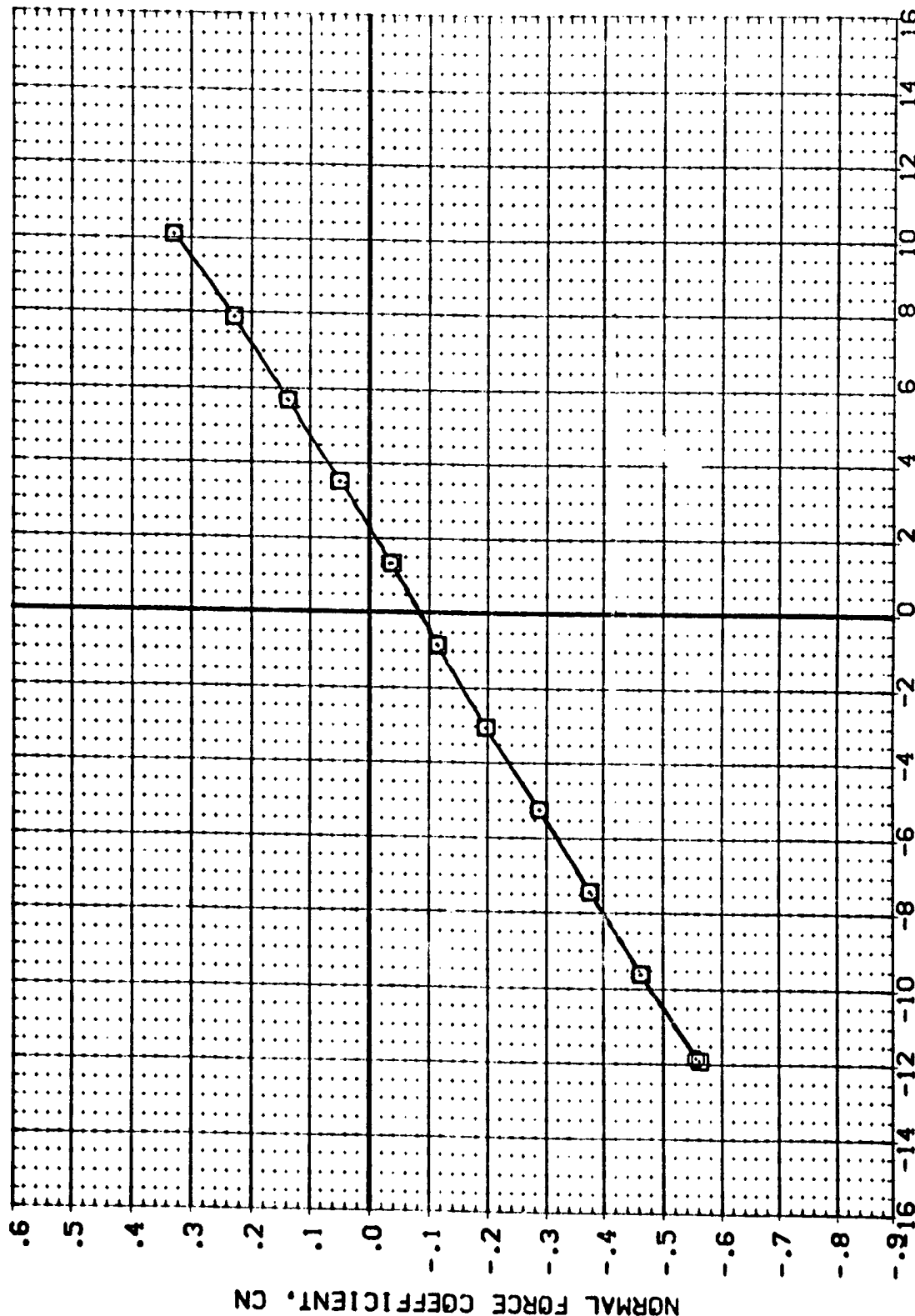
DATA SET SYMBOL (H06008)
(D06013)

BETA 5.000
5.000

REFERENCE INFORMATION
SREF 2690.0000 SO.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP .0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150 INCHES

TIPISIP201
TIPISIP201FRI

CONFIGURATION DESCRIPTION
LRC L/PVT 1056/1073 1A42A/B
LRC L/PVT 1056/1073 1A42A/B

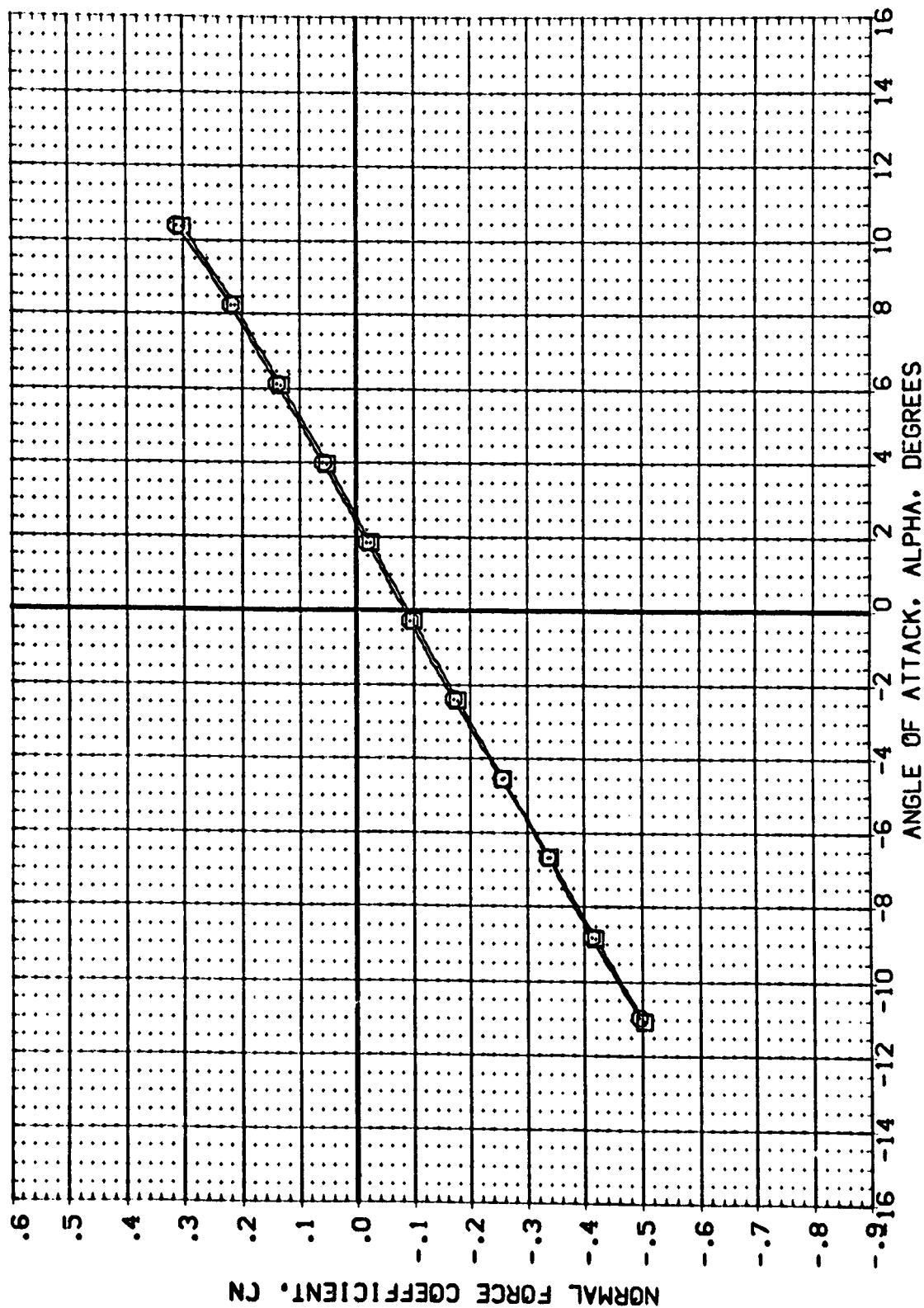


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

PAGE 158

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(M06008)	LRC UPVT 1056/1073 (A42A/B)	5.000	.000	SREF 2690.0000 SQ.FT.
(D06013)	LRC UPVT 1056/1073 (A42A/B)	5.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

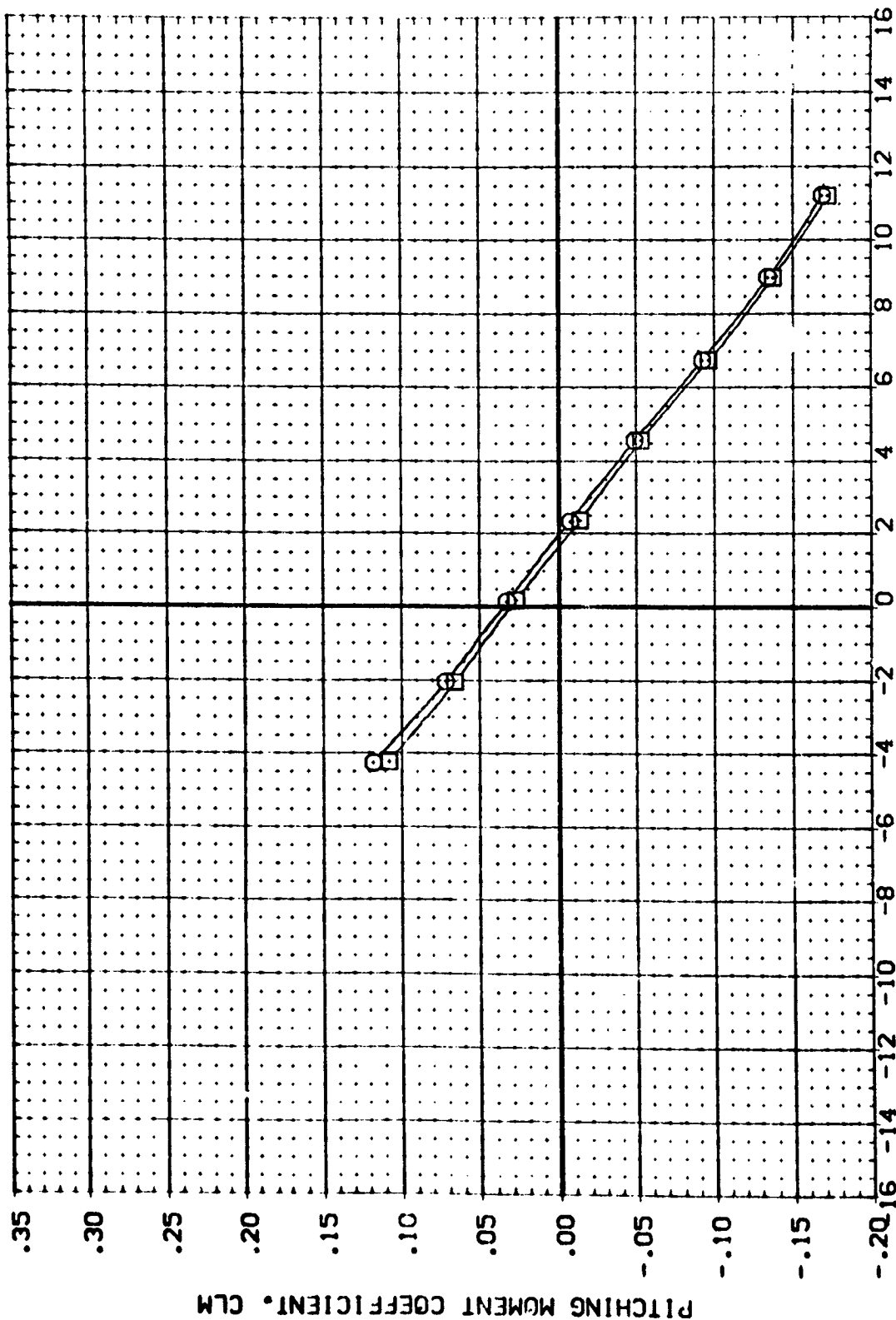
(E)MACH = 4.63

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (M06008) LRC UPVT 1056/1073 1A12A/B
 (D06013) LRC UPVT 1056/1073 1A12A/B

TIPISIP201
 TIPISIP201FR1

BETA RUDDER
 5.000 .000
 5.000 .000

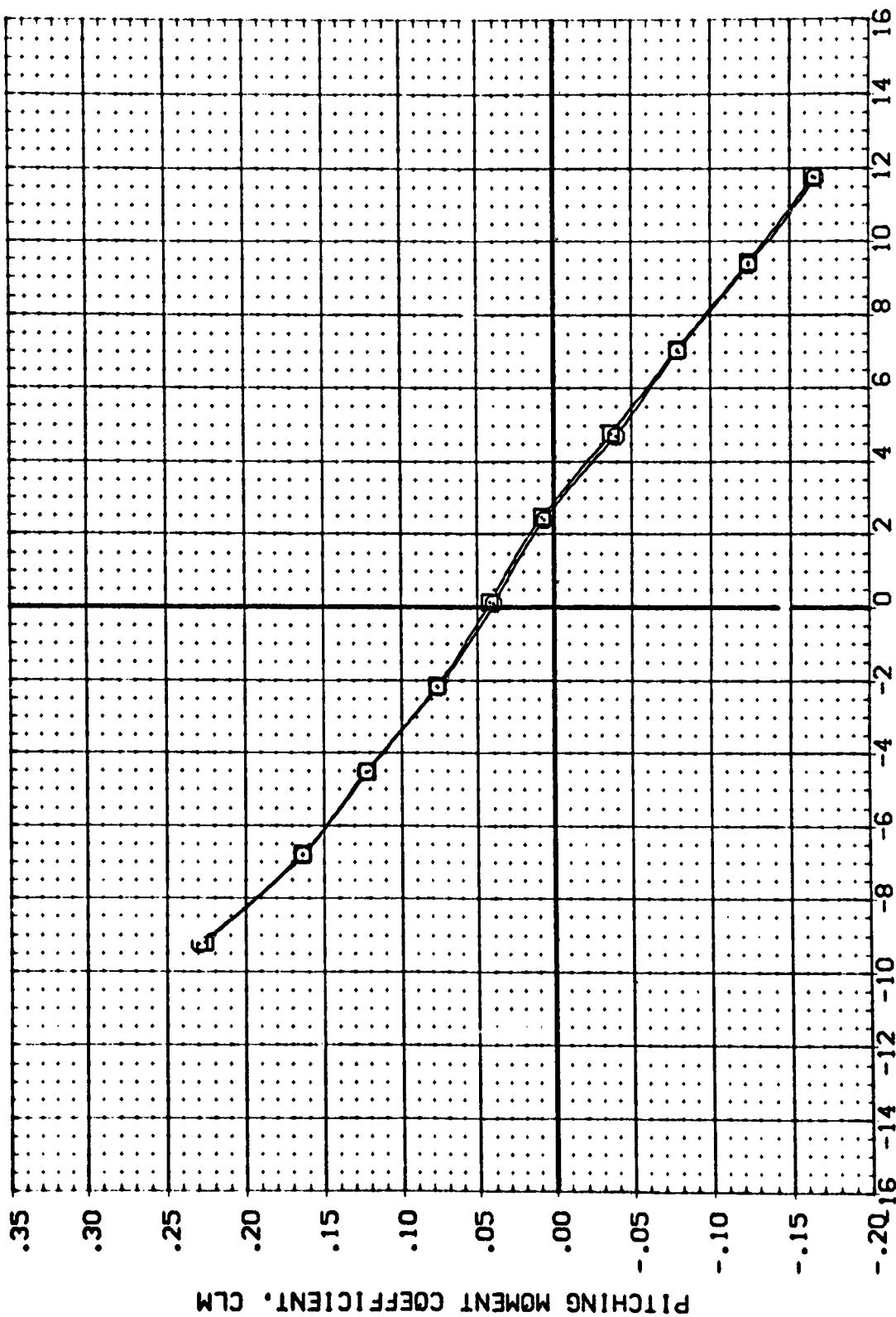
REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(M06008)	LRC LPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SQ.FT.
(M06013)	LRC LPVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE

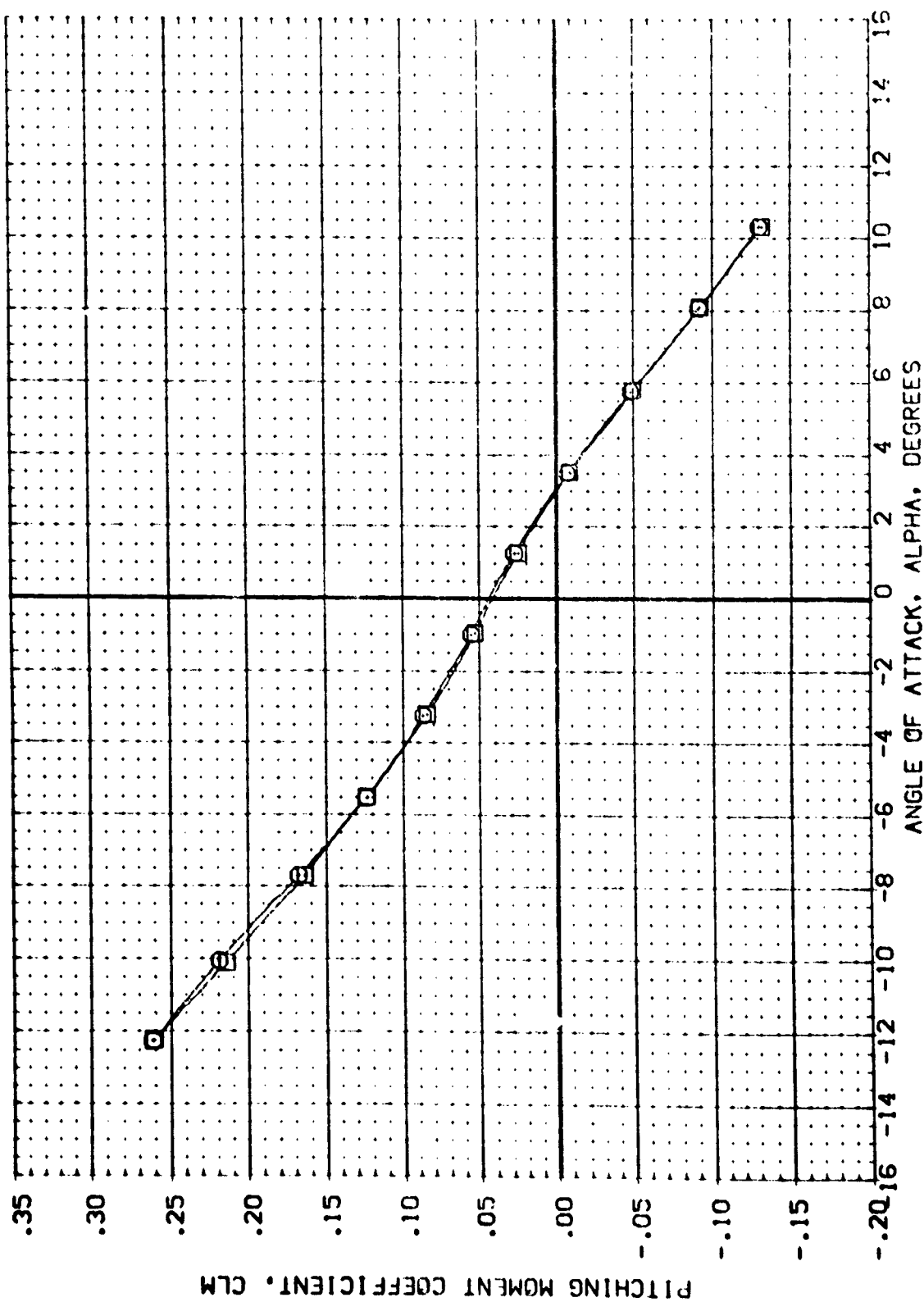


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

BETA	RJDER
5.000	.000
5.000	.000

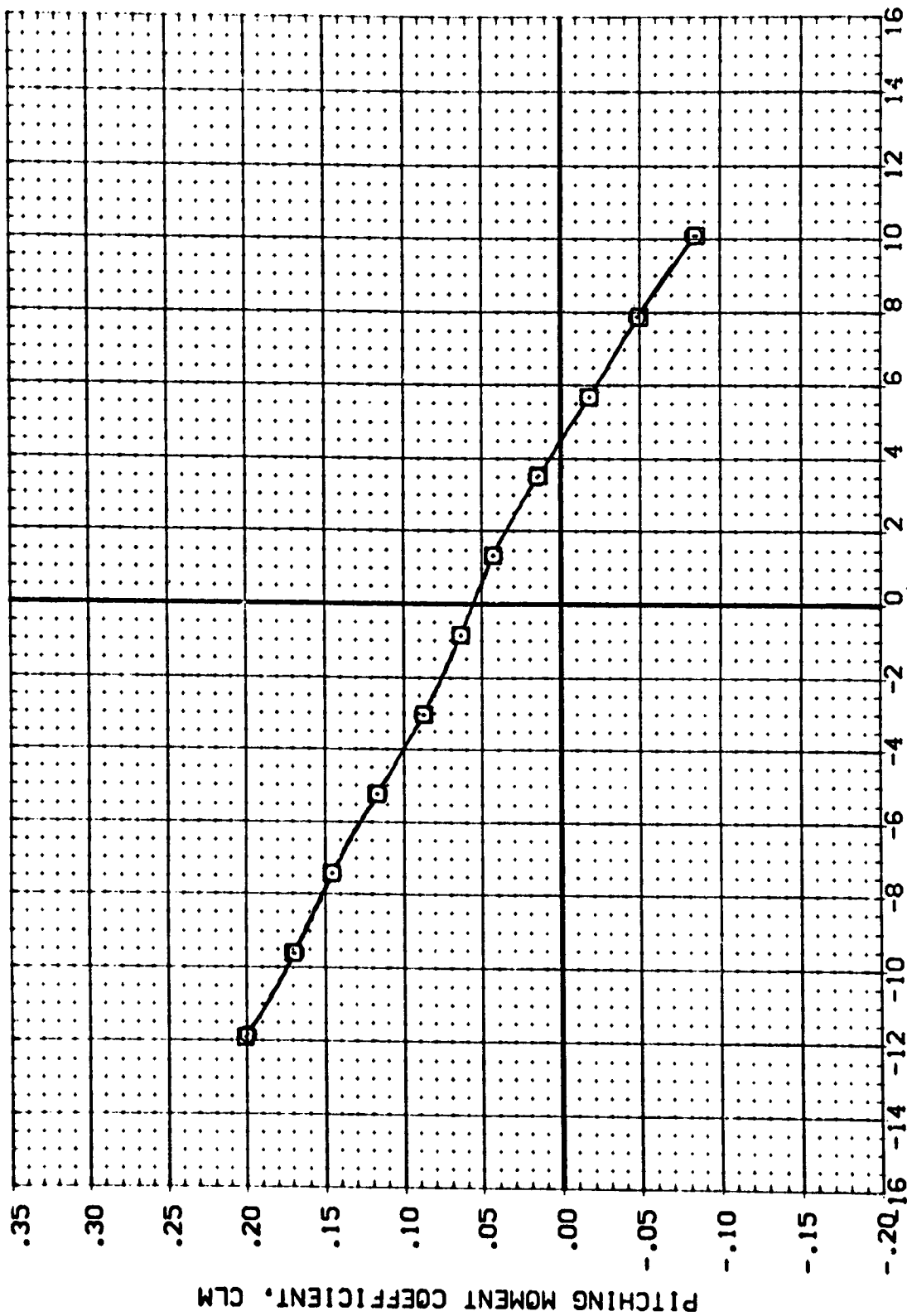
REFERENCE INFORMATION	
SREF	2690.0000 SQ.FT.
LREF	1290.0000 INCHES
BREF	1290.0000 INCHES
JMPF	976.0000 INCHES
YMPF	0000.0000 INCHES
ZMPF	400.0000 INCHES
	0000.0000 SQ.FT.



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

$$\{C\}MACH = 2.96$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(M06008)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SQ.FT.
(D06013)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				VMRP 976.0000 INCHES
				VMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE

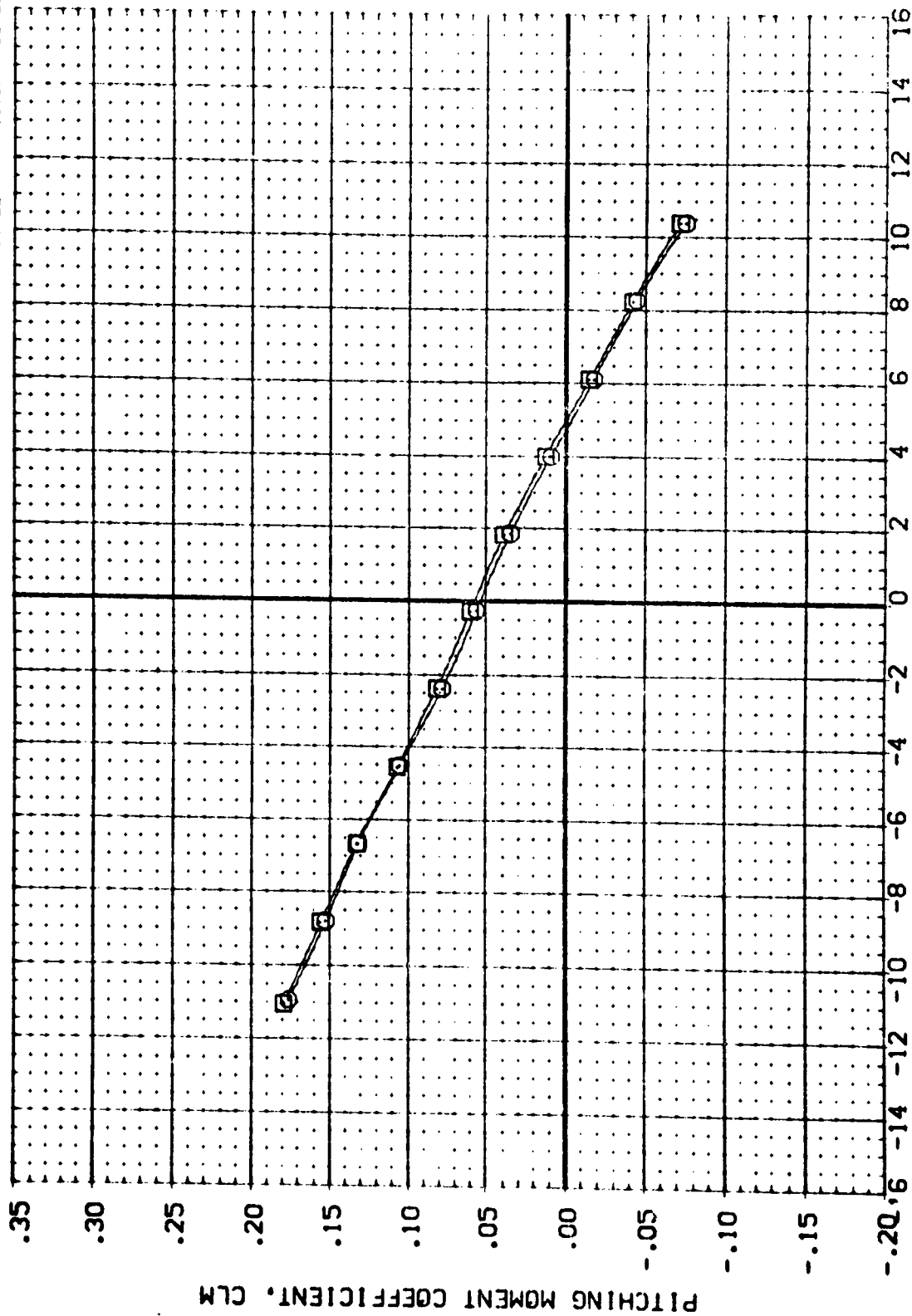


EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(O)MACH = 3.90



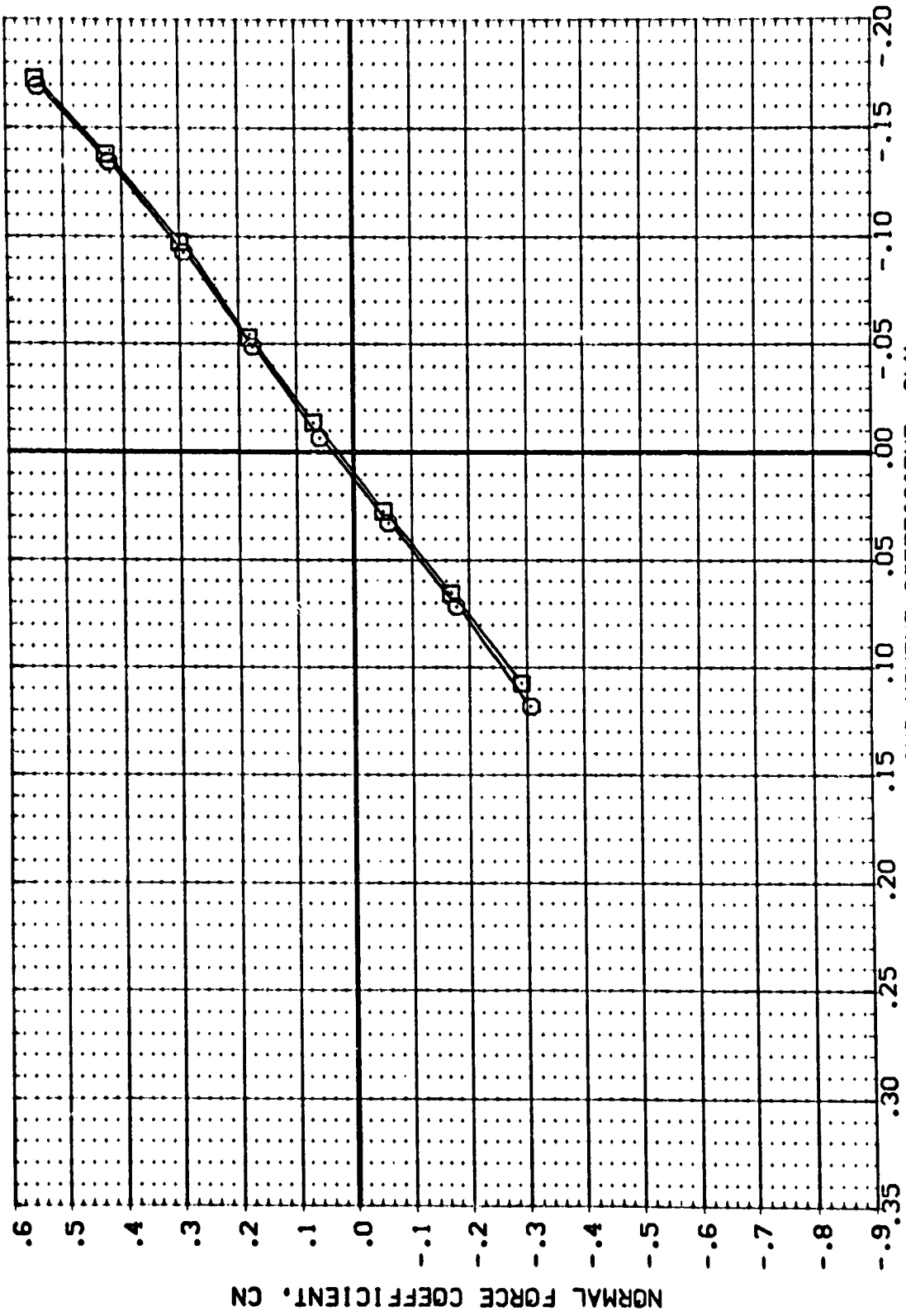
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	TIPISIP201	BETA	RUDDER	REFERENCE INFORMATION
14020081	LRC UPVT 1056/1073 1A42A/B	TIPISIP201FRI	5.000	.000	SREF 2690.0000 50. FT.
0760131	LRC UPVT 1056/1073 1A42A/B		5.000	.000	LREF 1290.3000 INCHES
					BREF 1290.3000 INCHES
					XMRP 976.0000 INCHES
					VMRP 0.000 INCHES
					ZMRP 400.0000 INCHES
					SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

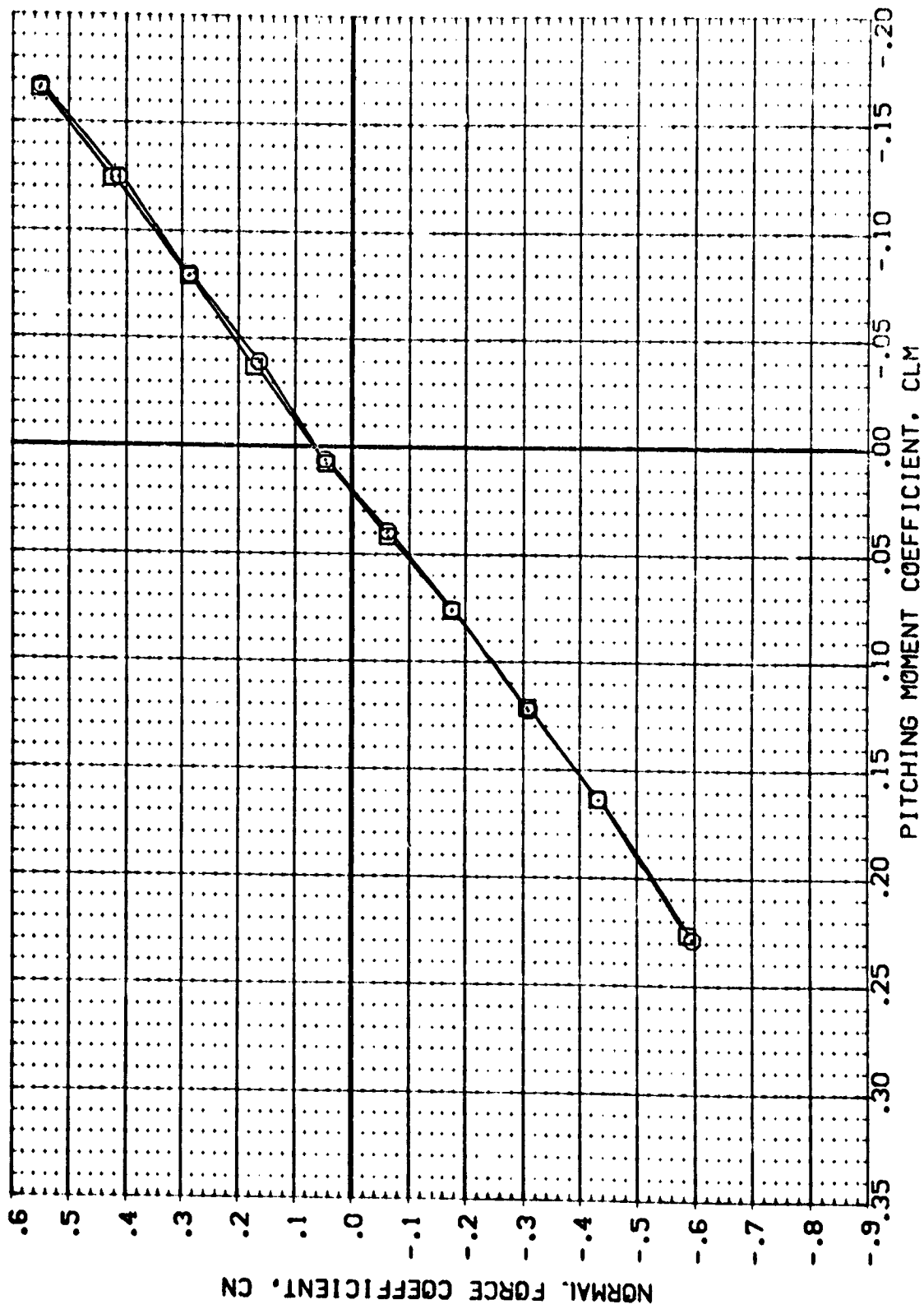
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		RUDDER		REFERENCE INFORMATION	
(H05008)	(D06013)	LRC_PVT	(056/1073)	TIPISIP201	5.000	.000	SREF	2690.0000	50. FT.
		LRC_PVT	(056/1073)	TIPISIP201FRI	5.000	.000	LREF	1290.3000	INCHES
							BREF	1290.3000	INCHES
							XMRP	976.0000	INCHES
							YMRP	.0000	INCHES
							ZMRP	400.0000	INCHES
							SCALE	.0150	SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05008)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SO.FT.
(D06013)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

MACH = 2.50

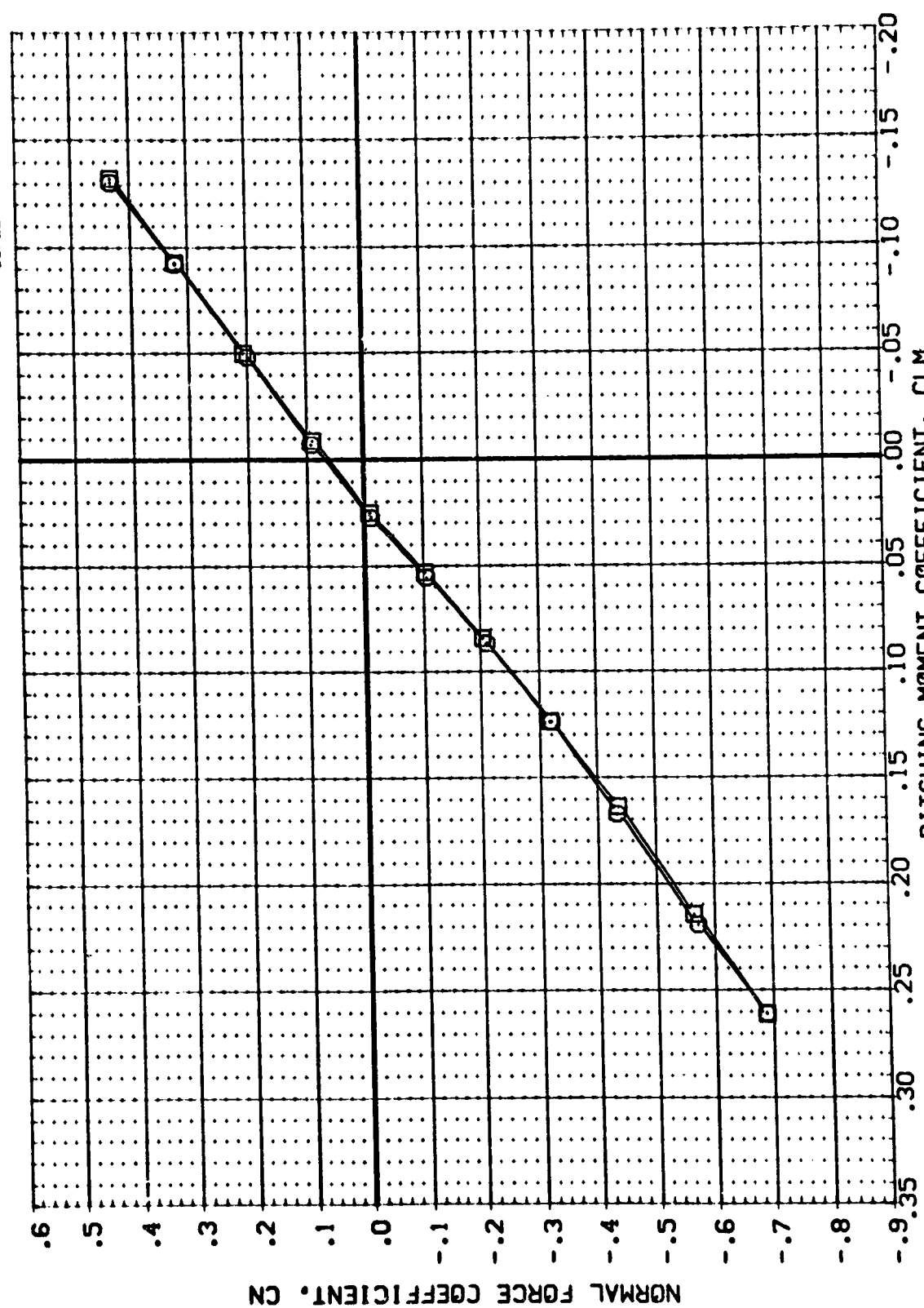
PAGE 166

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 0.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 5.000 .000
 5.000 .000

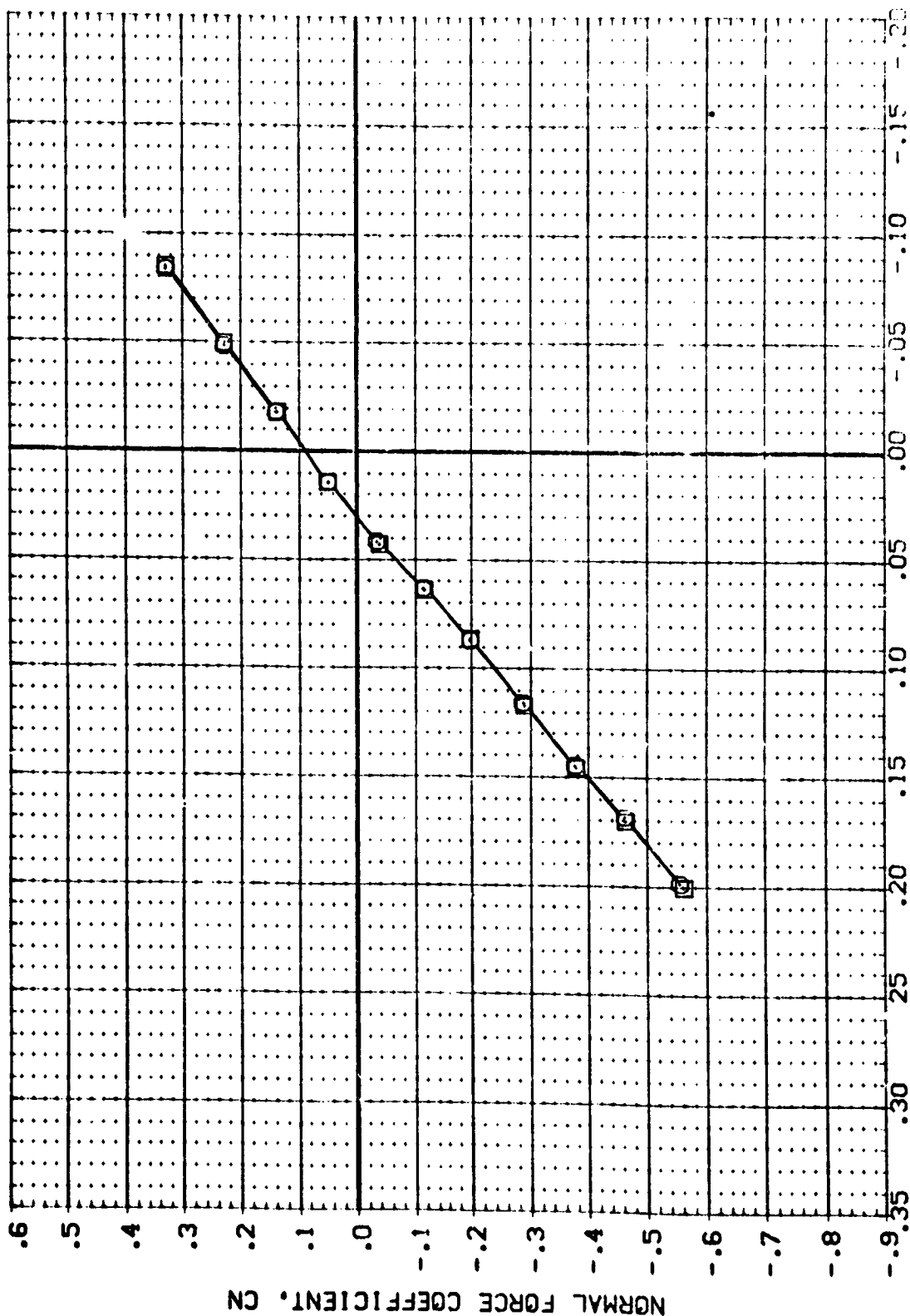
TIPISIP201
 TIPISIP201FR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (M05008) LRC UPVT 1056/1073 1A12MVB
 (D06013) LRC UPVT 1056/1073 1A12MVB



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS
 PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05008)	LRC LPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SO.FT.
(D05013)	LRC LPVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				X-RRP 576.0000 INCHES
				Y-RRP 400.0000 INCHES
				Z-RRP 400.0000 INCHES
				SCALE .0150 SCALE



PITCHING MOMENT COEFFICIENT, CLM

EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL: (H05008) (D05013)

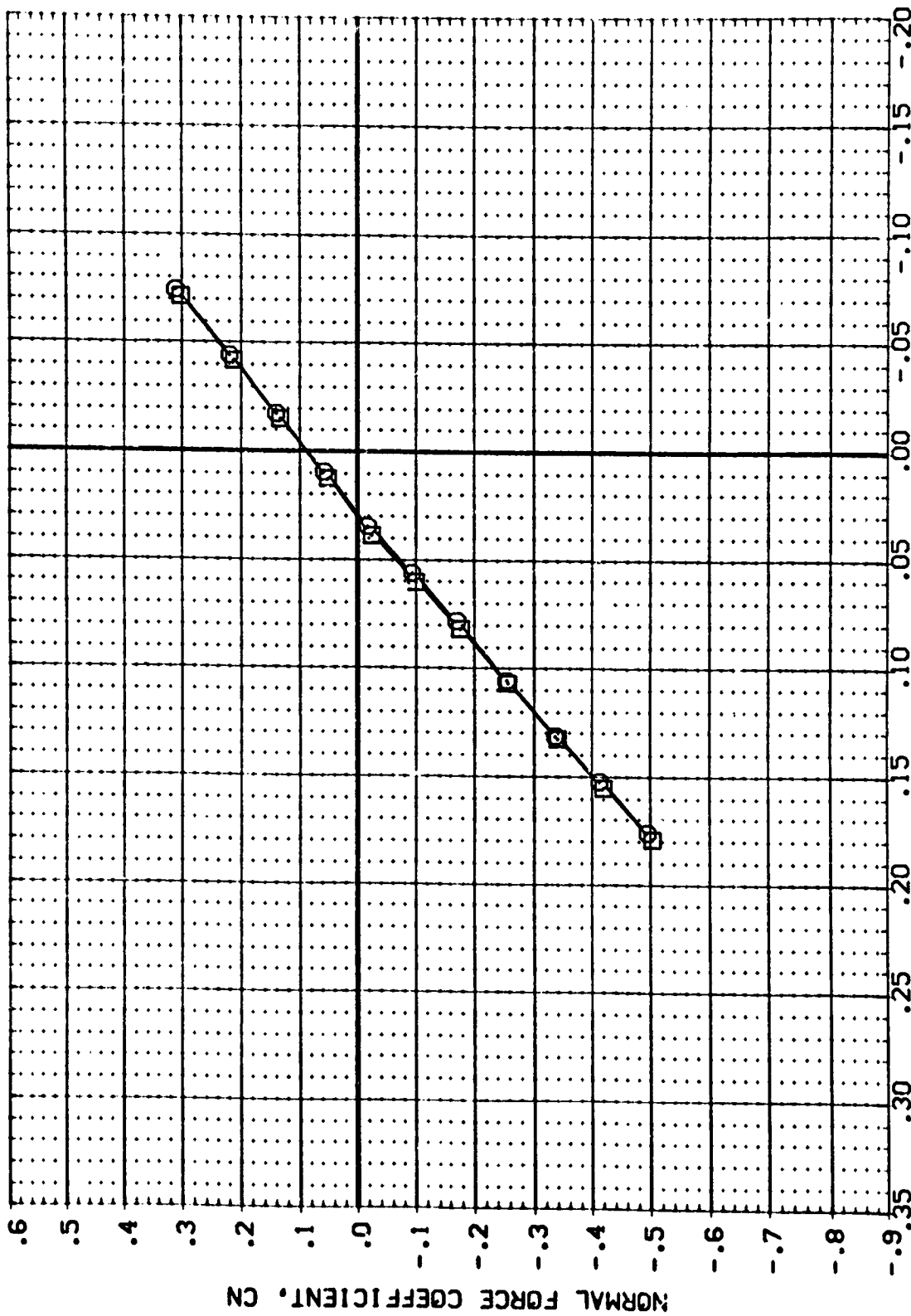
CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42M/B
LRC UPVT 1056/1073 1A42M/B

TIPISIP201
TIPISIP201FRI

BETA: 5.000
5.000

RUDDER: .000
.000

REFERENCE INFORMATION:
SREF 2690.0000 SO.FT.
LREF 1290.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP .0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150 SCALE



EFFECT OF UMBILICAL FAIRING ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

DATA SET SYMBOL: (R06009) (R06013)

CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42AVB LRC UPVT 1056/1073 1A42AVB

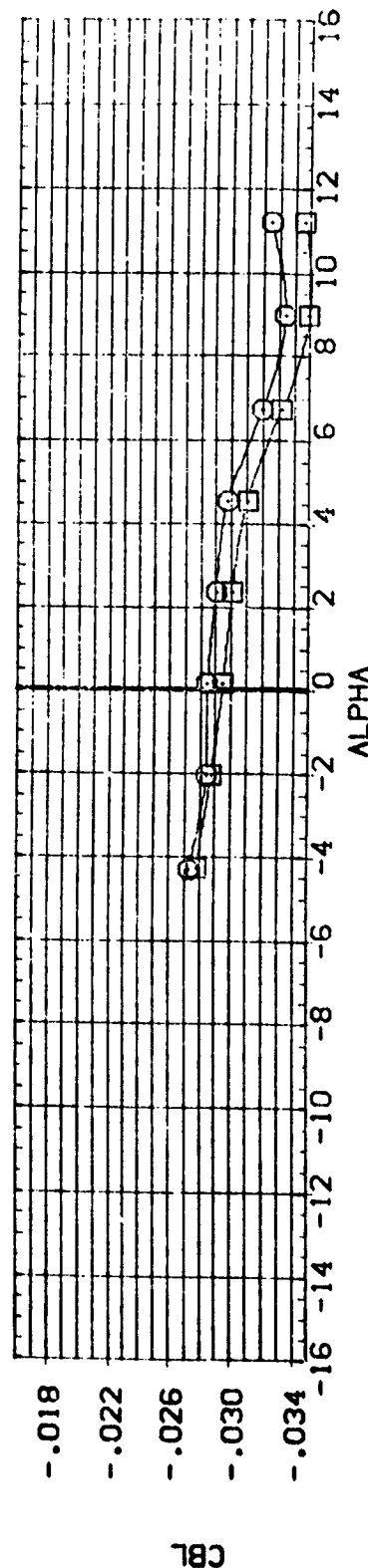
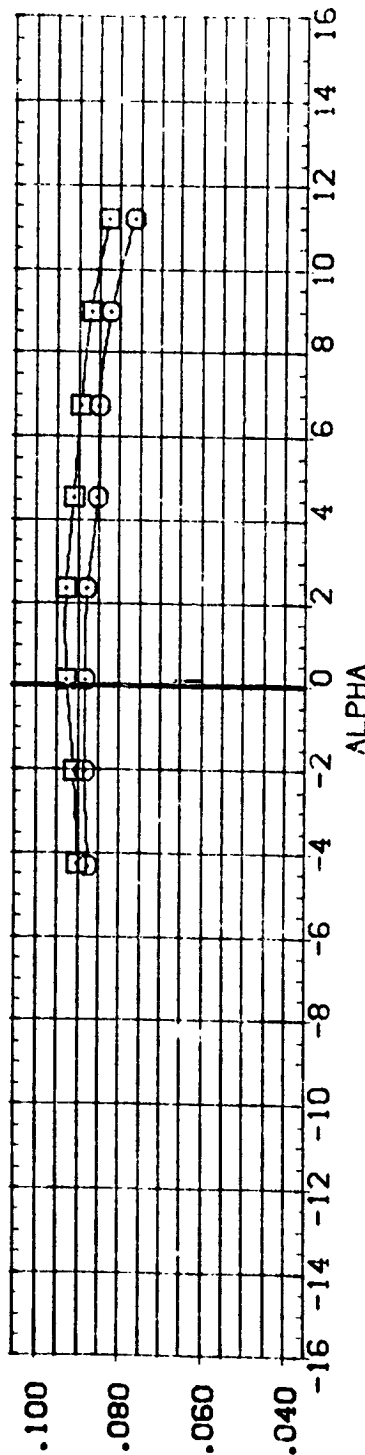
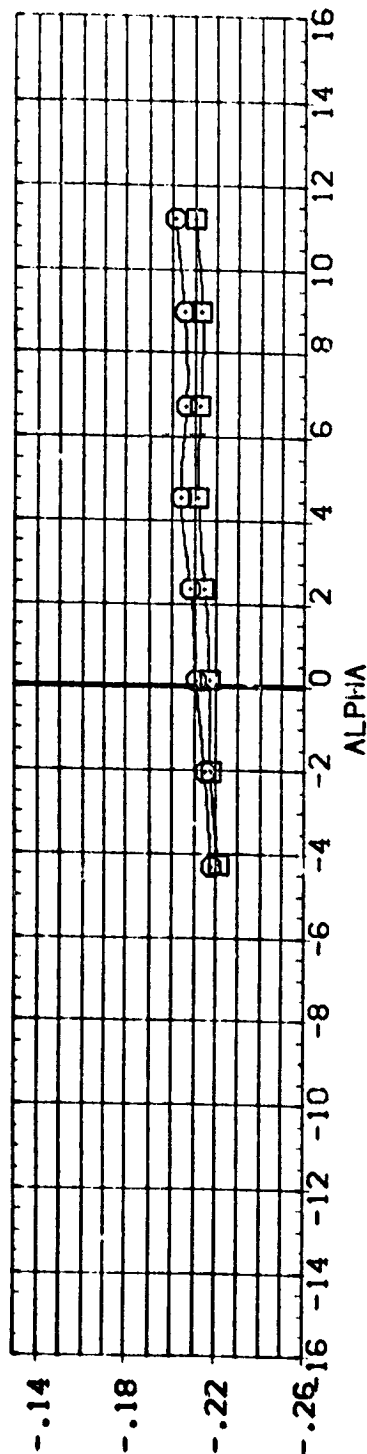
TIP1SIP201 TIP1SIP201FR1

BETA: 5.000 5.000

RUDDER: .000 .000

REFERENCE INFORMATION:

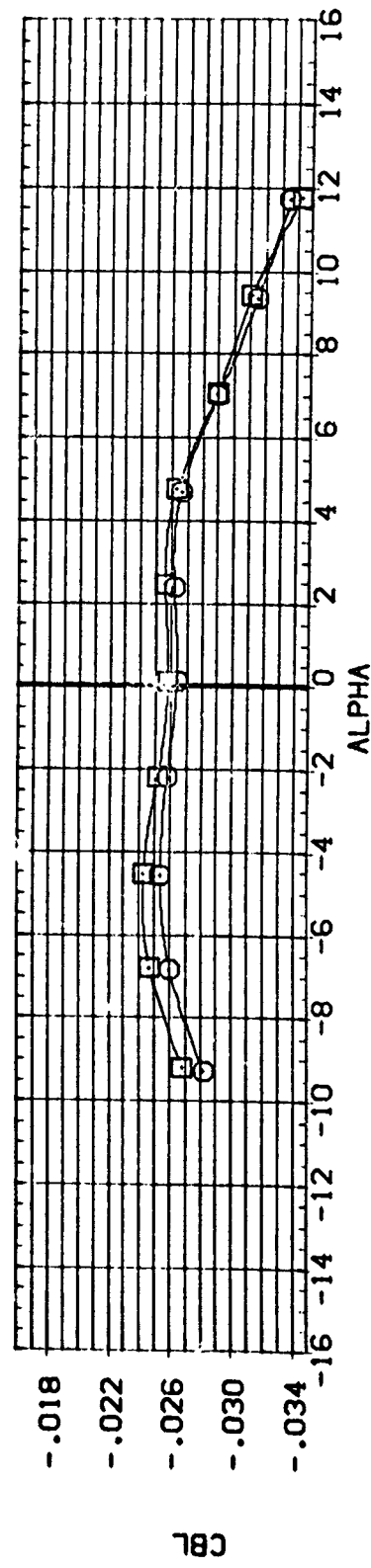
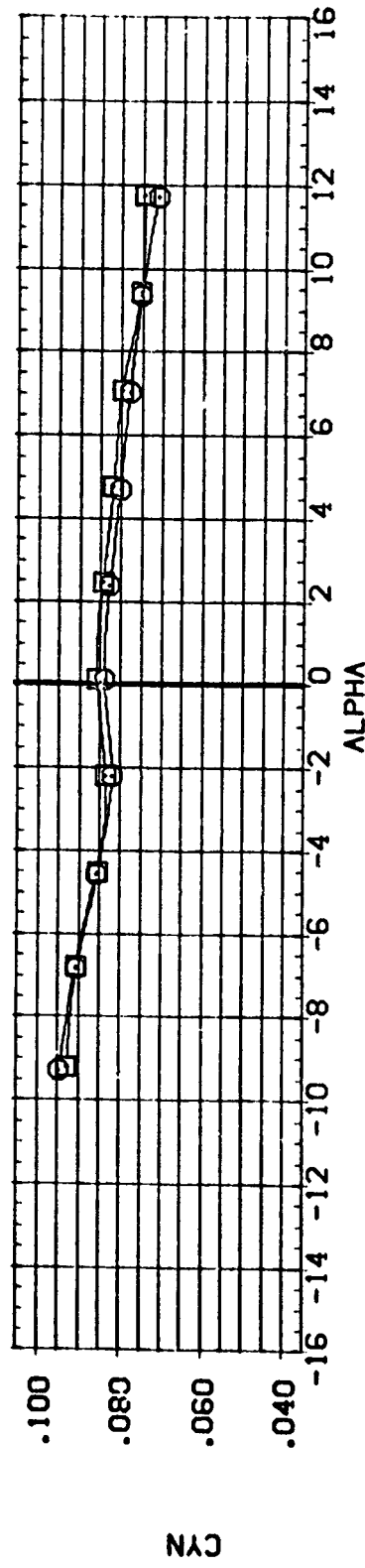
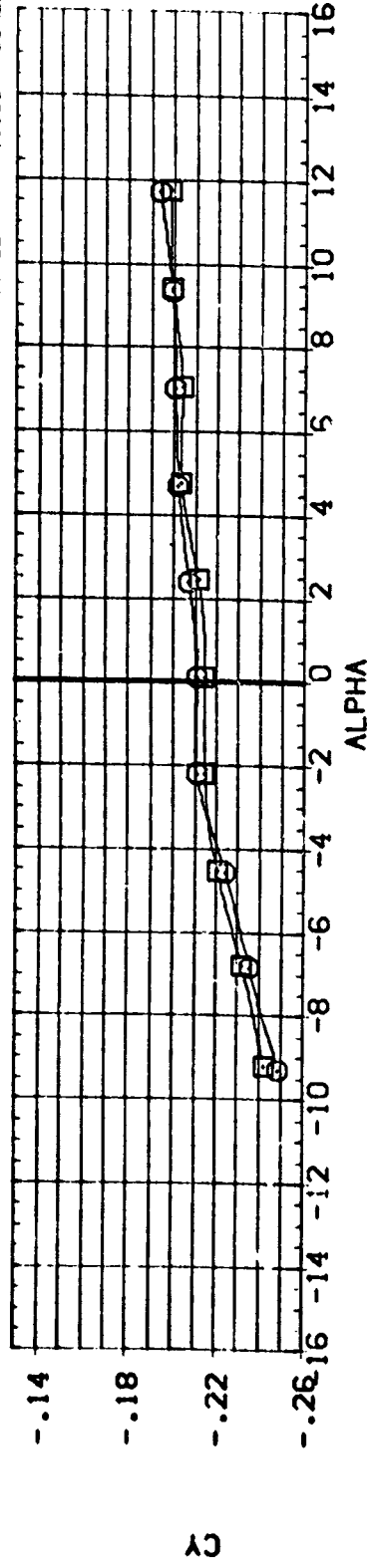
	2690.0000	1290.3000	1290.3000	976.0000	400.0300	0.0150
SREF	INCHES	INCHES	INCHES	INCHES	INCHES	SCALE
LREF						
BREF						
XMRP						
YMRP						
ZMRP						



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 2.00

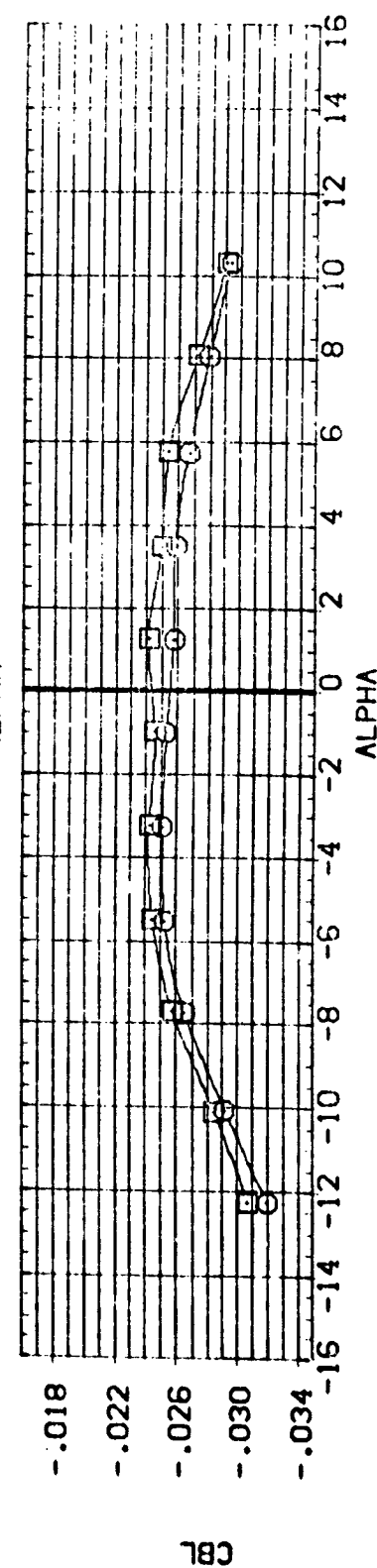
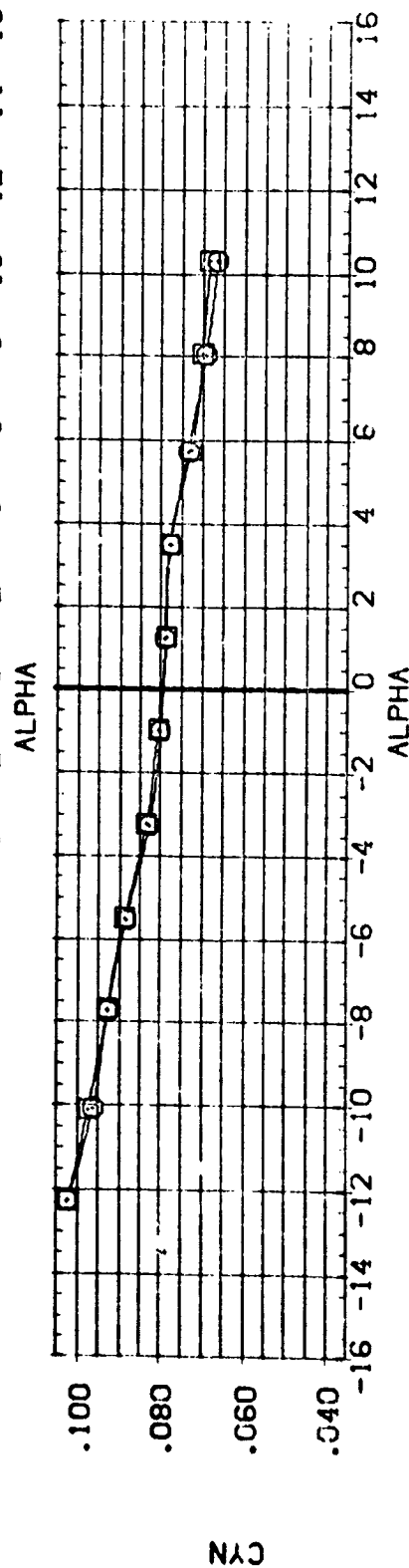
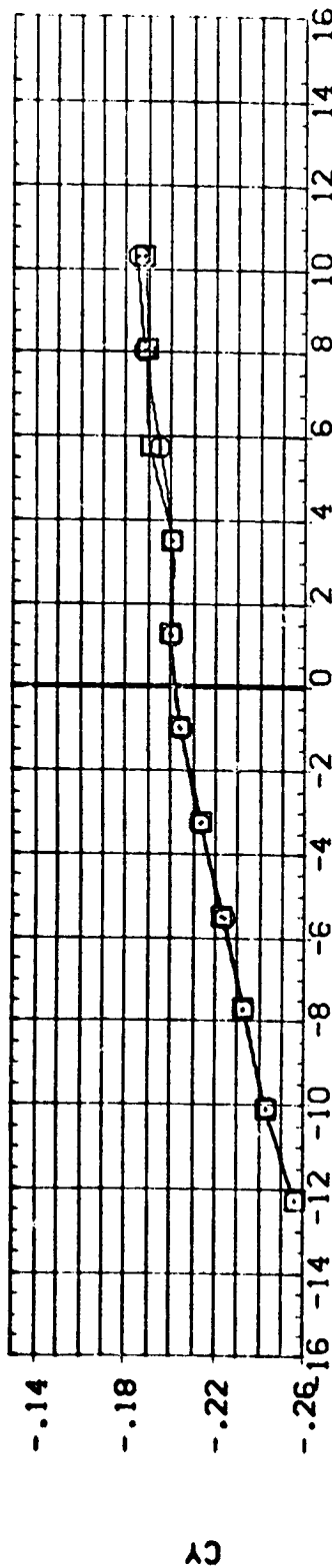
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
R06008	LRC LPT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SO.FT.
(R06013)	LRC LPT 1055/1073 1A42A/B	5.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP 400.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.50

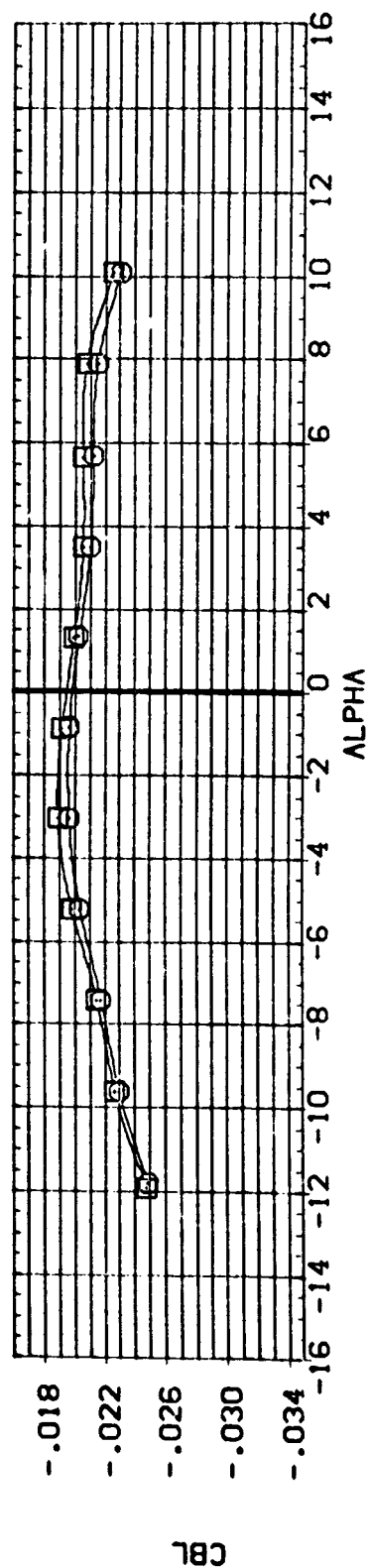
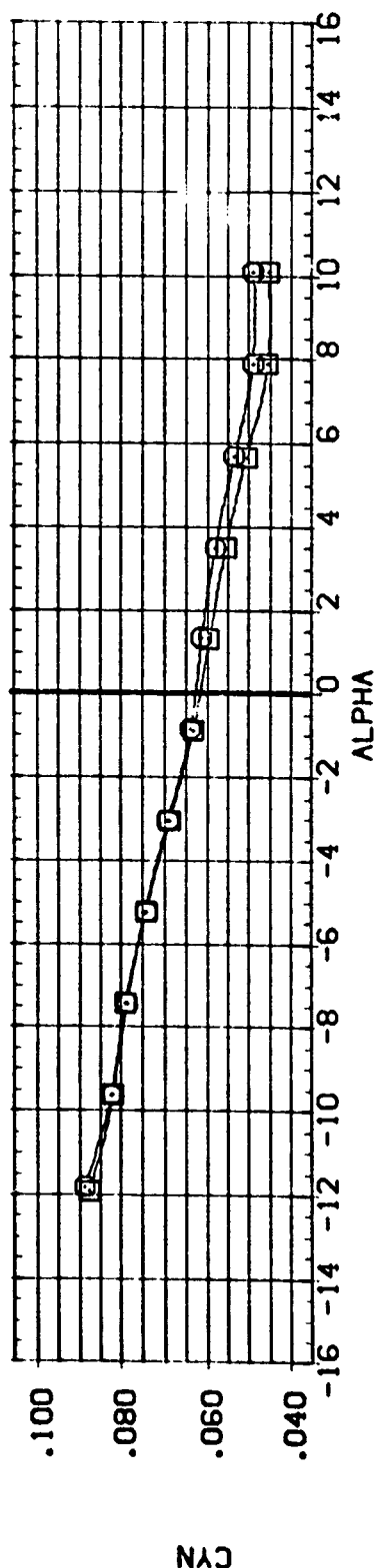
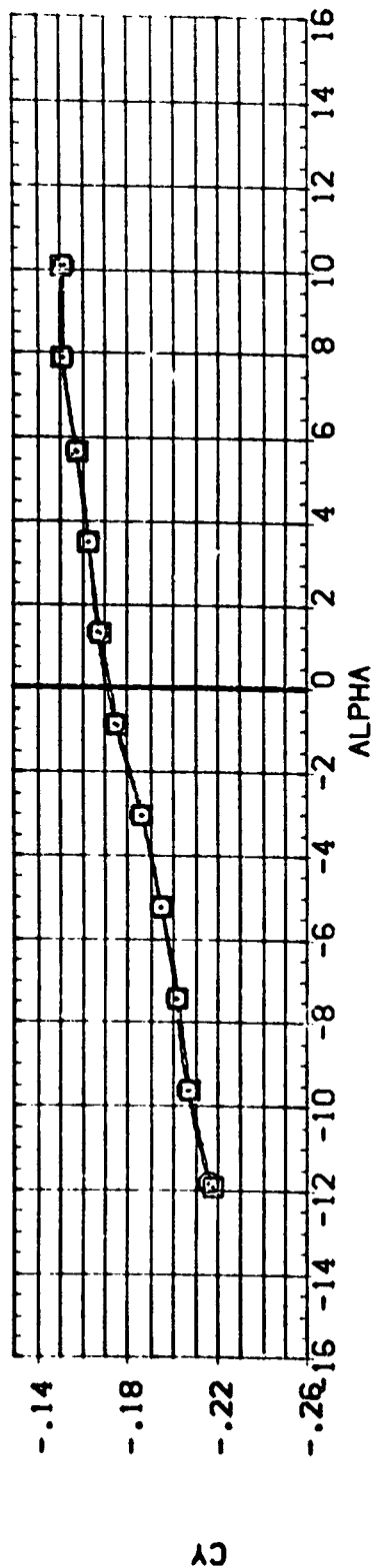
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(R05008)	LRC UPVT 1056/1073 1A12A/B	5.000	.000	SREF 2690.0000 SQ. FT.
(R06013)	LRC UPVT 1056/1073 1A12A/B	5.000	.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS

(C)MACH = 2.86

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		RUDDER		REFERENCE INFORMATION	
RO60081	RO6013	LRC	PVT 1056/1073 1A42A/B	5.000	.000	SREF	2690.0000	50. FT.	
		LRC	PVT 1056/1073 1A42A/B	5.000	.000	LREF	1290.3000	INCHES	
						BREF	1290.3000	INCHES	
						XMRP	976.0000	INCHES	
						YMRP	.0000	INCHES	
						ZMRP	400.0000	INCHES	
						SCALE	.0150	SCALE	



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS

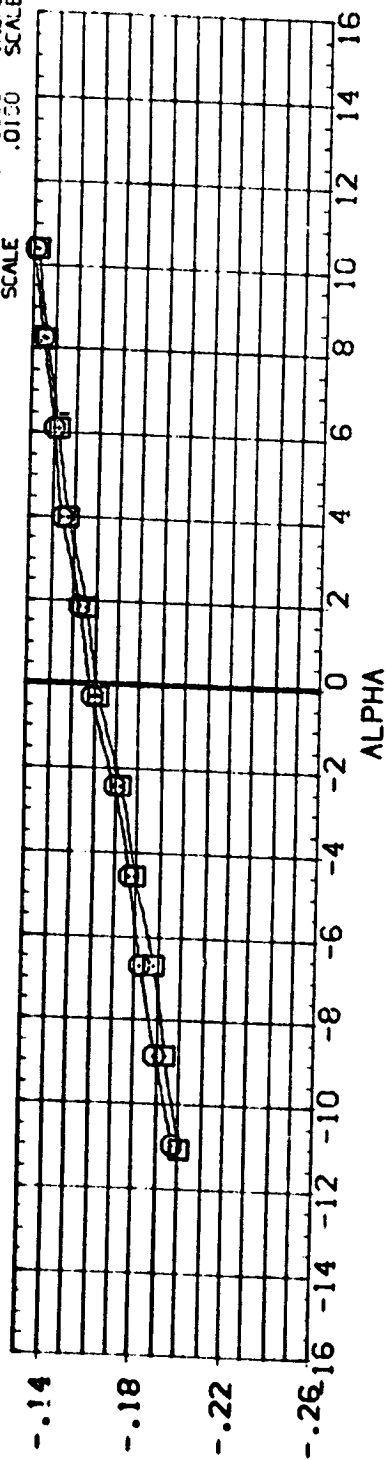
(D)MACH = 3.90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R06008) LRC UPVT 1056/1073 IM42A/B
 (R06013) LRC UPVT 1056/1073 IM42A/B

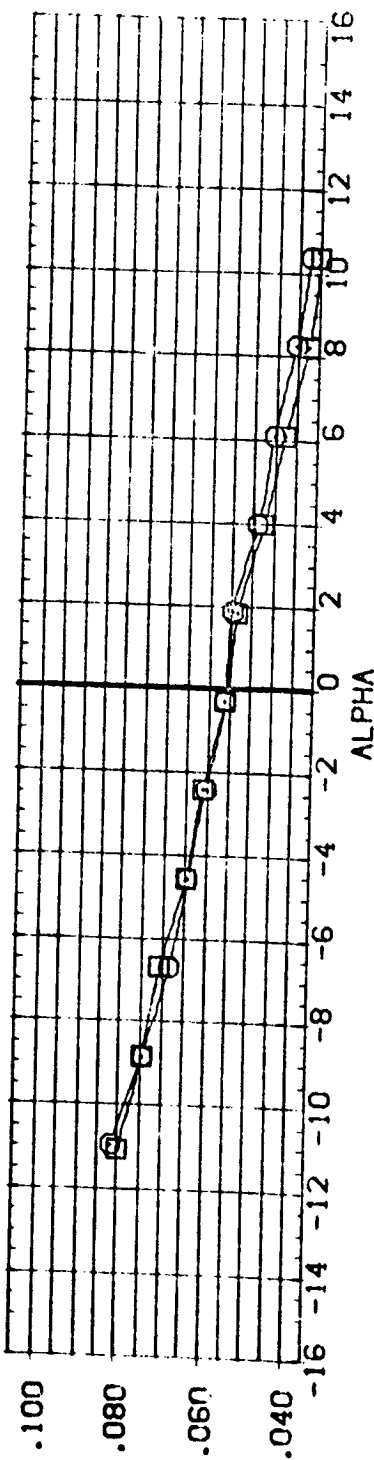
TIPISIP201
 TIPISIP201FRI

BETA R-RODER
 5.000 .030
 5.000 .000

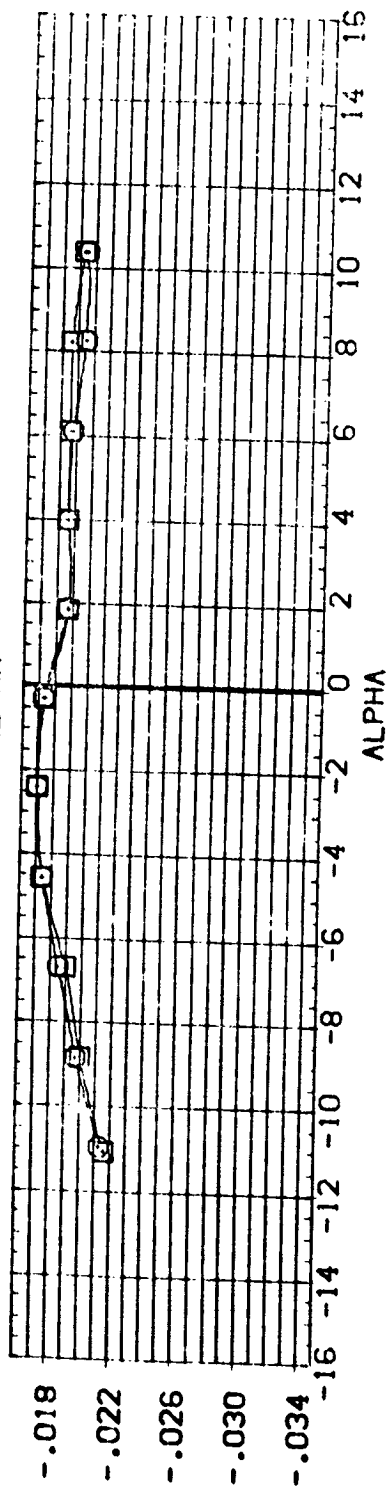
REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 400.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0130



CY



CYN

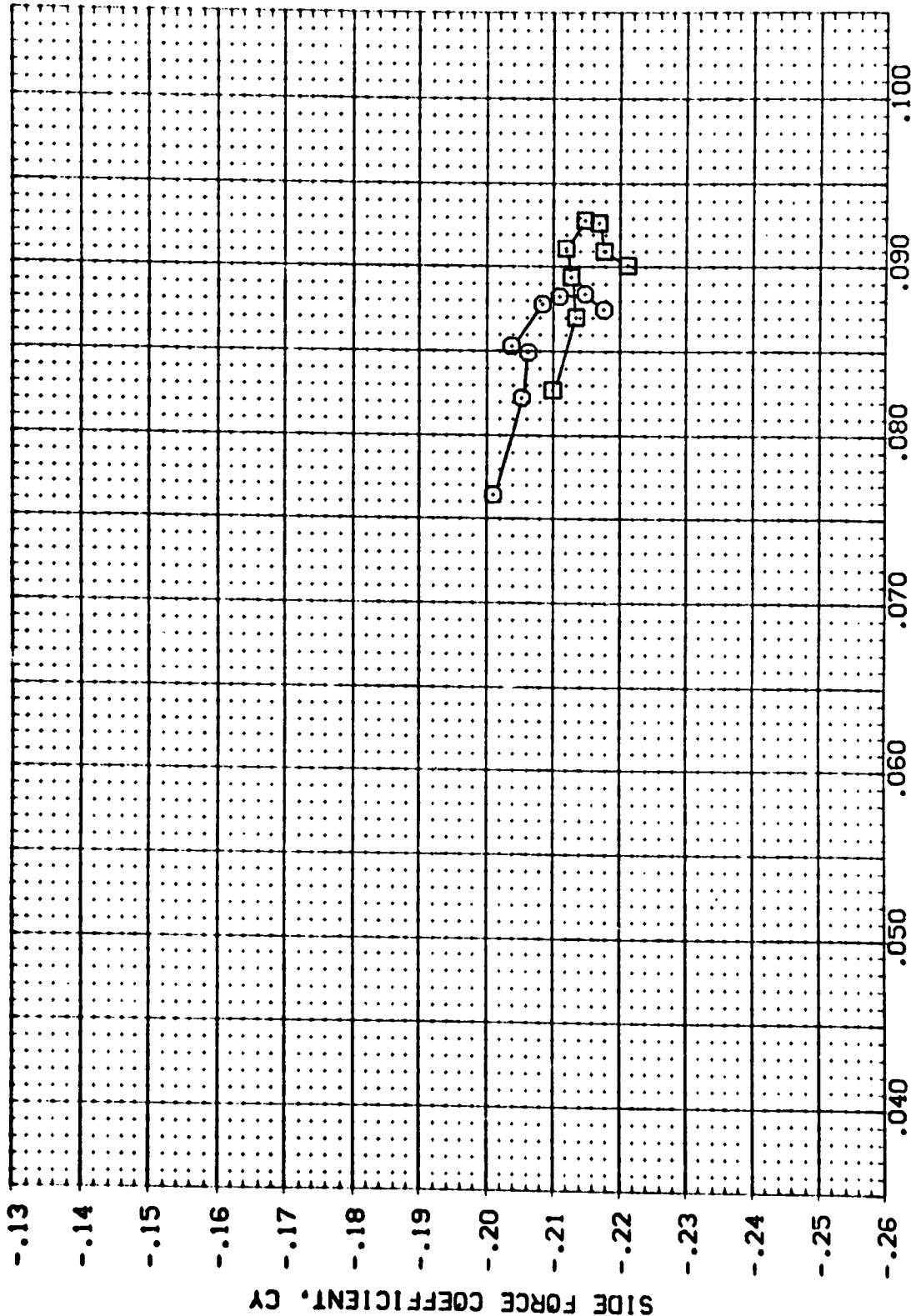


CBL

EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS

(EDMACH = 4.63

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION	
(R06008)	(R06013)	LRC JPT 1056/1073 1A42A/B	5.000	.000	SREF	2690.0000 SQ.FT.
		LRC LPT 1056/1073 1A42A/B	5.000	.000	LREF	1290.3000 INCHES
					BREF	1290.3000 INCHES
					XMRP	976.0000 INCHES
					YMRP	.0000 INCHES
					ZMRP	400.0000 INCHES
					SCALE	.0150 SCALE

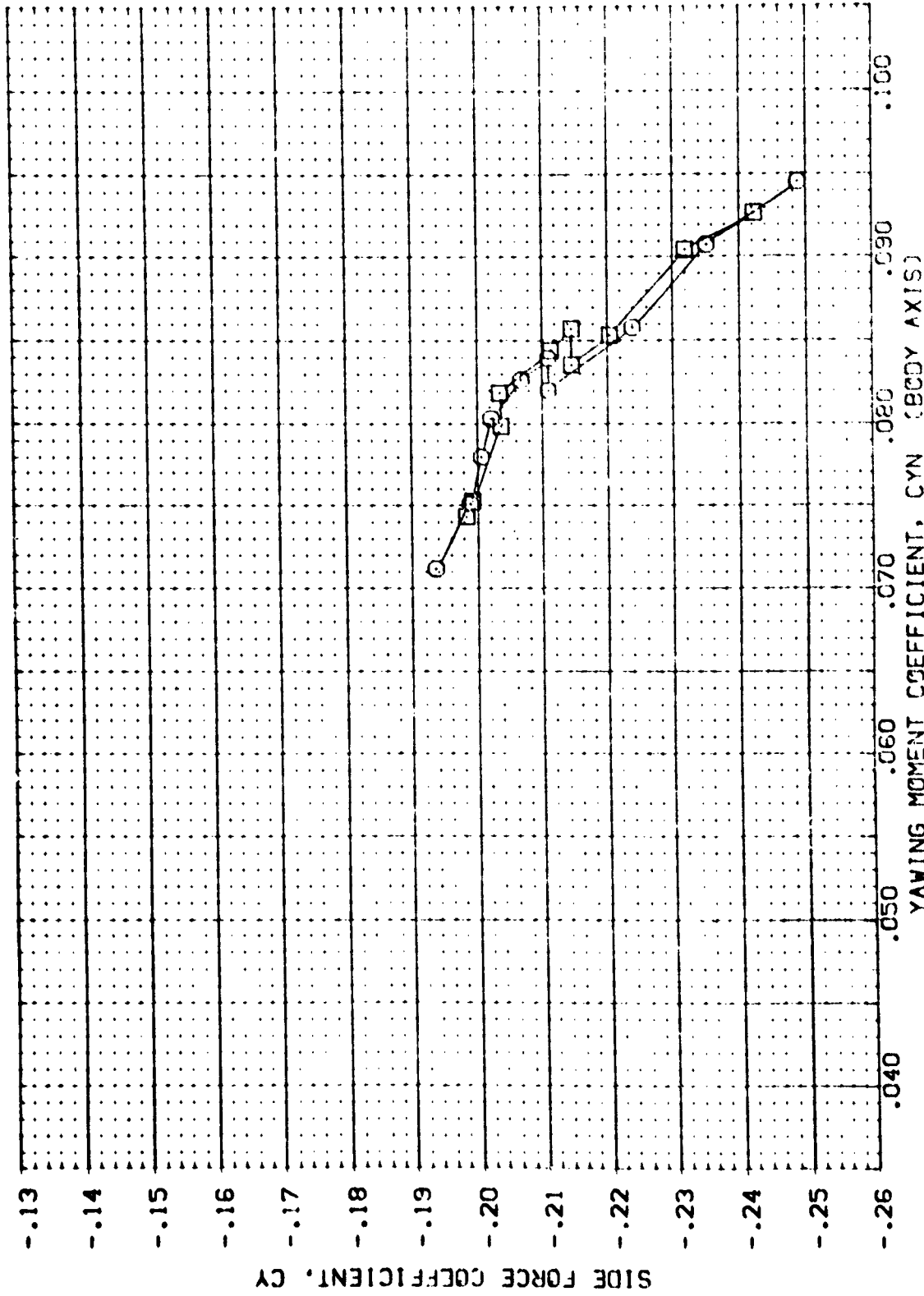


YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 2.00

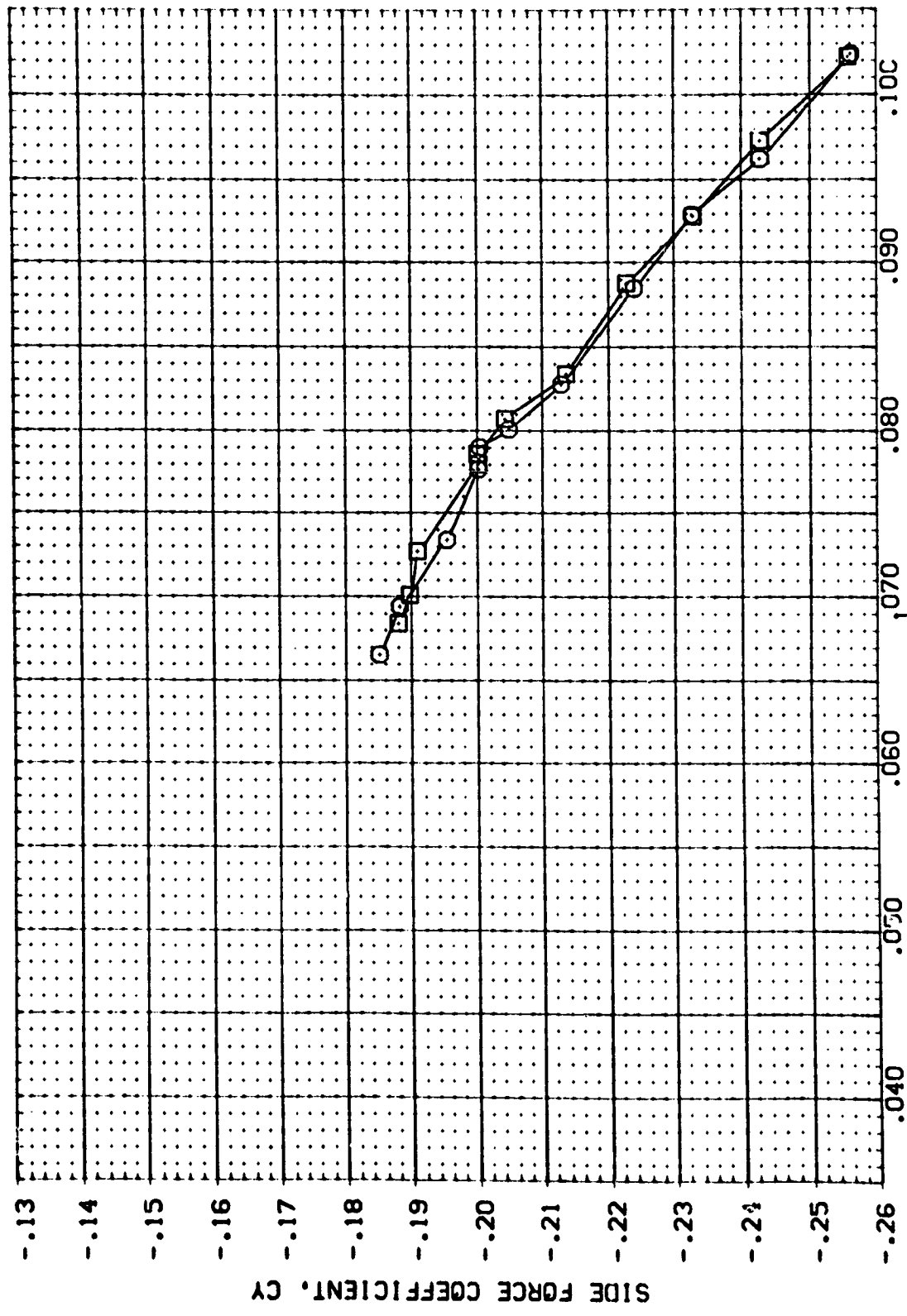
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(R06008)	LRC JVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000
(R06013)	LRC JVT 1056/1073 1A42A/B	5.000	.000	LREF 1290.3000
				BREF 1290.3000
				XREF 976.0000
				YREF 400.0000
				ZREF 1000.0000
				SCALE 1.0000



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		RUDDER		REFERENCE INFORMATION	
(R06009)	(R06013)	LRC JUNT 1056/1073	1A12A/B	TIPISIP201	5.000	.000	SREF	2690.0000	50. FT.
		LRC JUNT 1056/1073	1A12A/B	TIPISIP201FRI	5.000	.000	LREF	1290.3000	INCHES
							BREF	1290.3000	INCHES
							XMRP	976.0000	INCHES
							YMRP	400.0000	INCHES
							ZMRP	400.0000	INCHES
							SCALE	.0150	SCALE



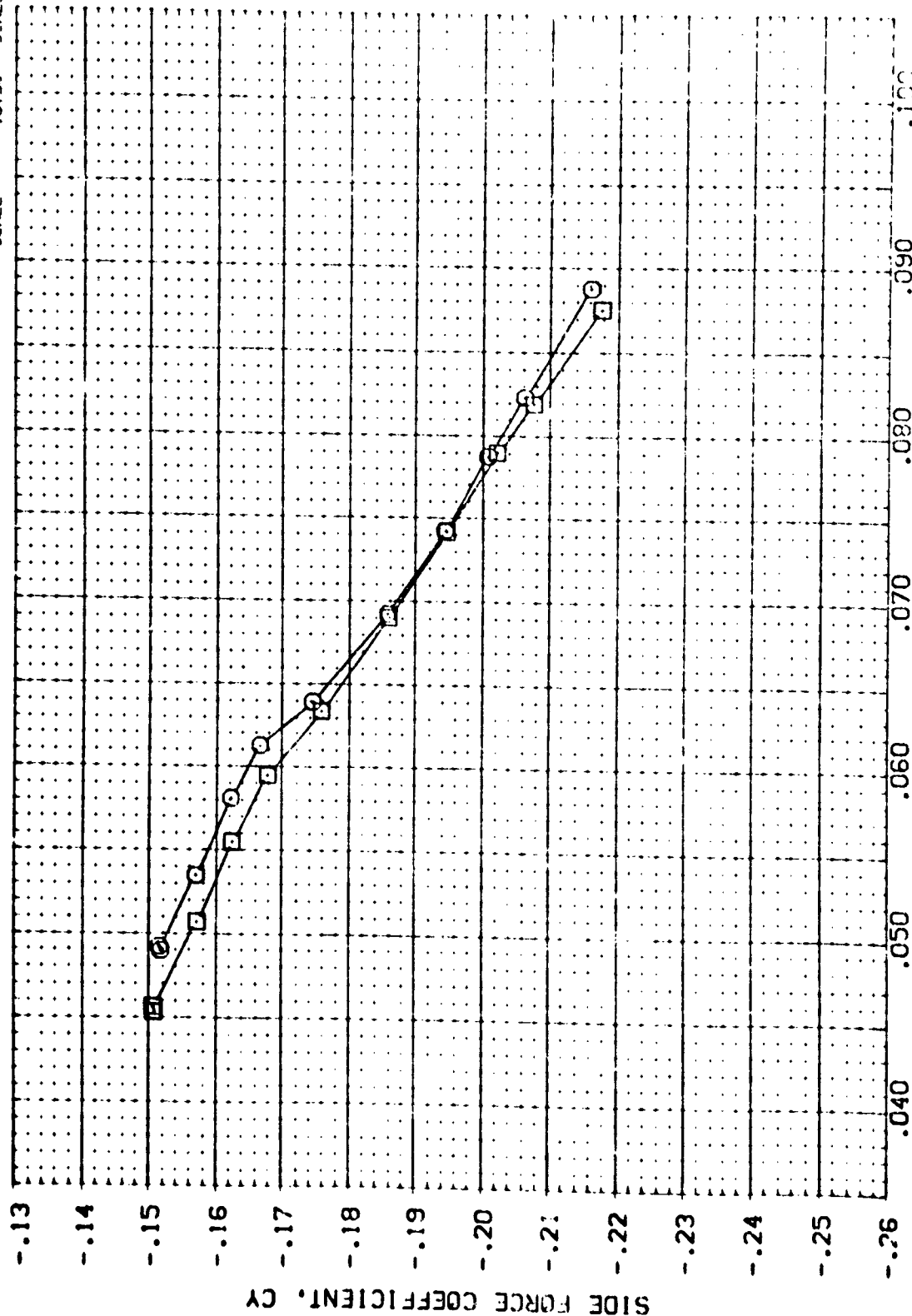
EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS
 YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

(C)MACH = 2.86

DATA SET SYMBOL: (R05008) (R05013)
 CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42A/B LRC UPVT 1056/1073 1A42A/B

TIP/SIP201 TIP/SIP201FRI
 BETA: 5.000 5.000
 RUDDER: .000 .000

REFERENCE INFORMATION
 SREF: 2690.0000 50.17 INCHES
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: 0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150

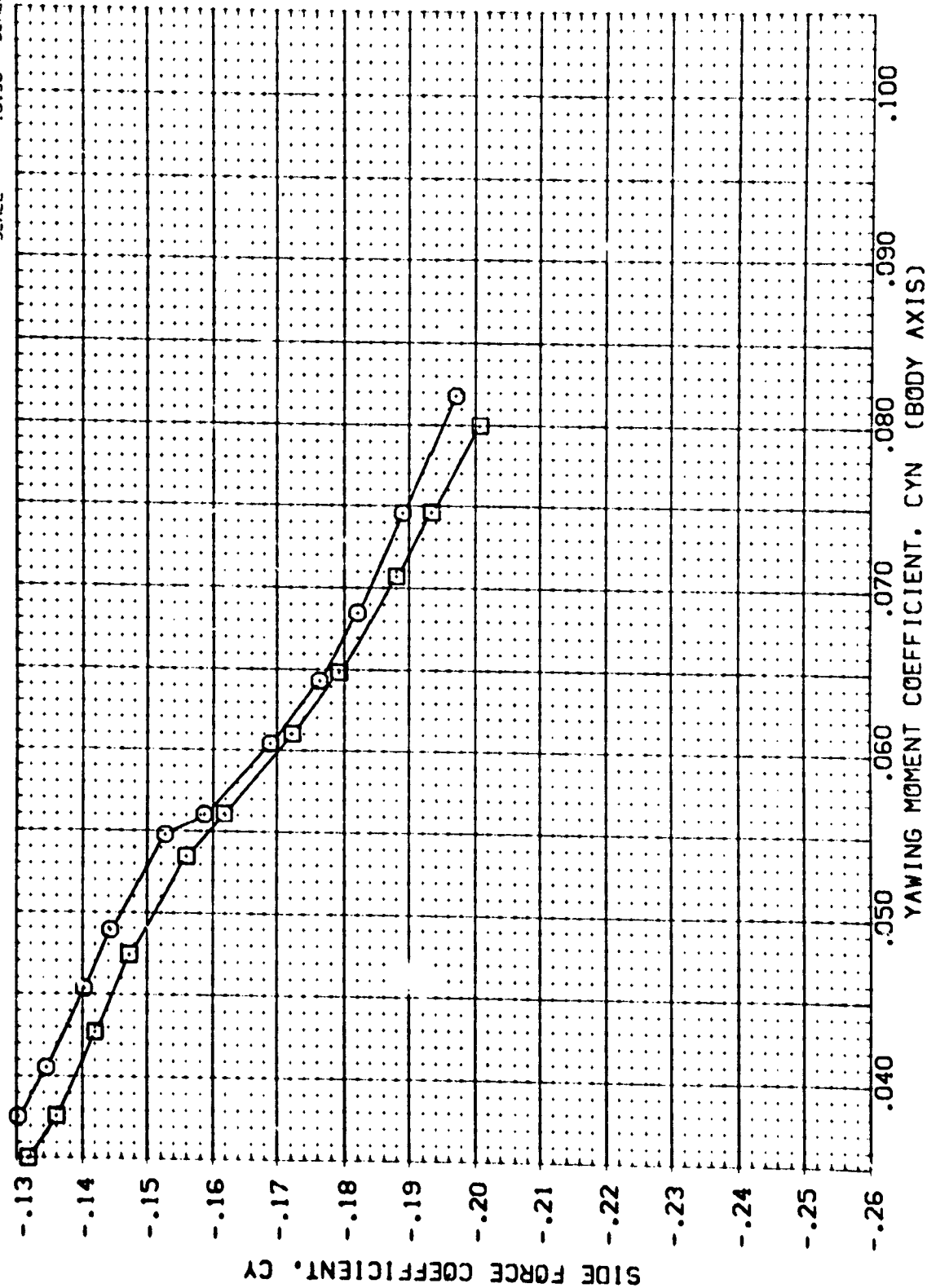


EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS
 YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

(0.0)MACH = 3.90

PAGE 1000

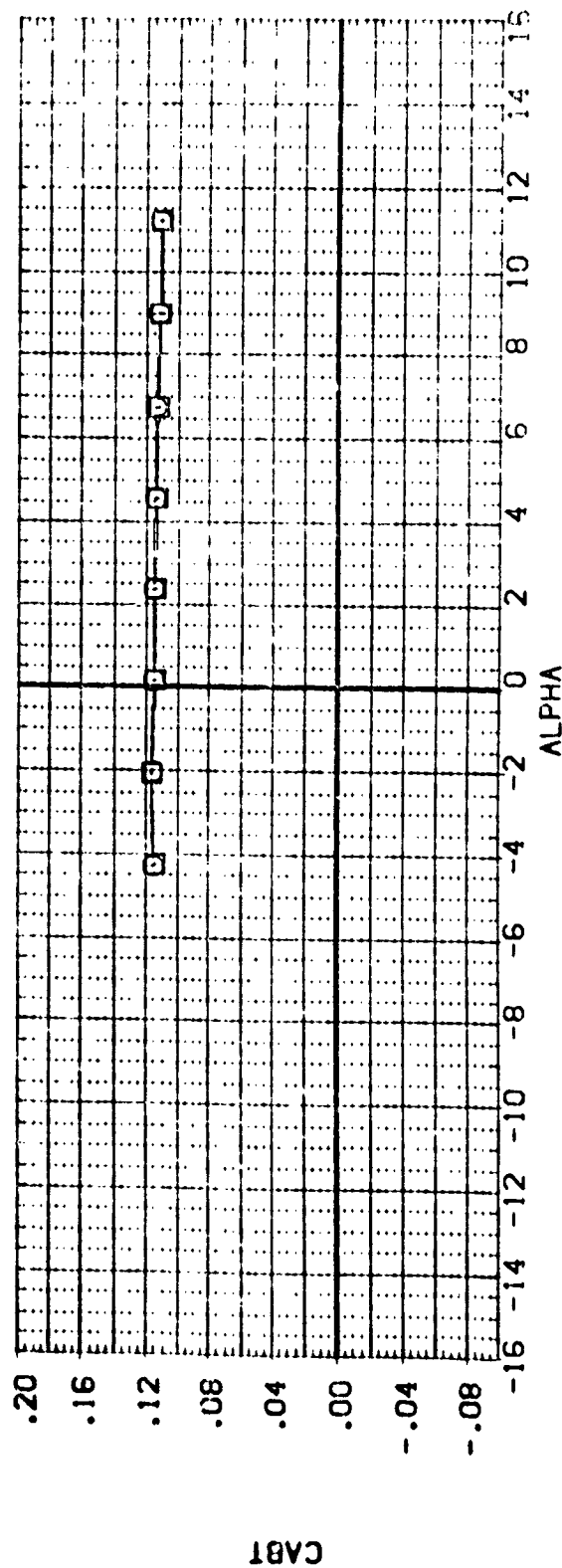
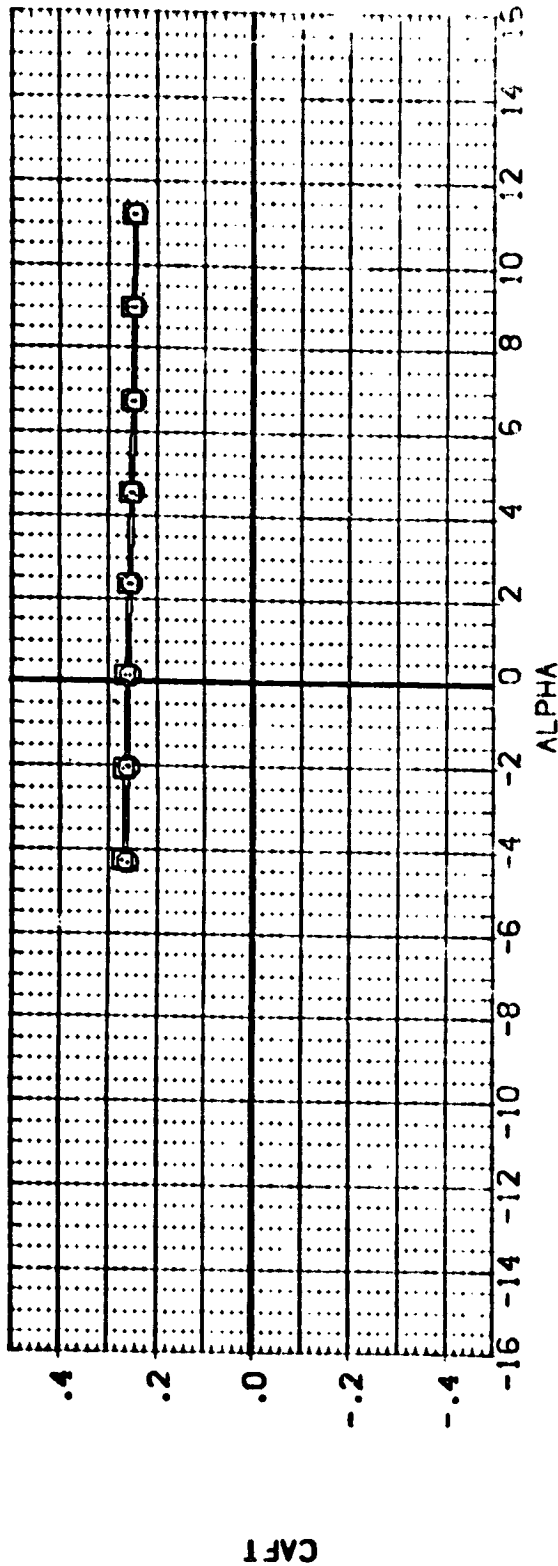
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		RUDDER		REFERENCE INFORMATION	
RD5008	LRC	JPT	1056/1073	1A42A/B	5.000	.000		SREF	2690.0000
RD5013	LRC	JPT	1056/1073	1A42A/B	5.000	.000		LREF	1290.3000
								BREF	1290.3000
								YMRP	576.0000
								ZMRP	400.0000
								SCALE	.0150



EFFECT OF UMBILICAL FAIRING ON LAT.-DIRECT. CHARACTERISTICS

(E)MACH = 4.53

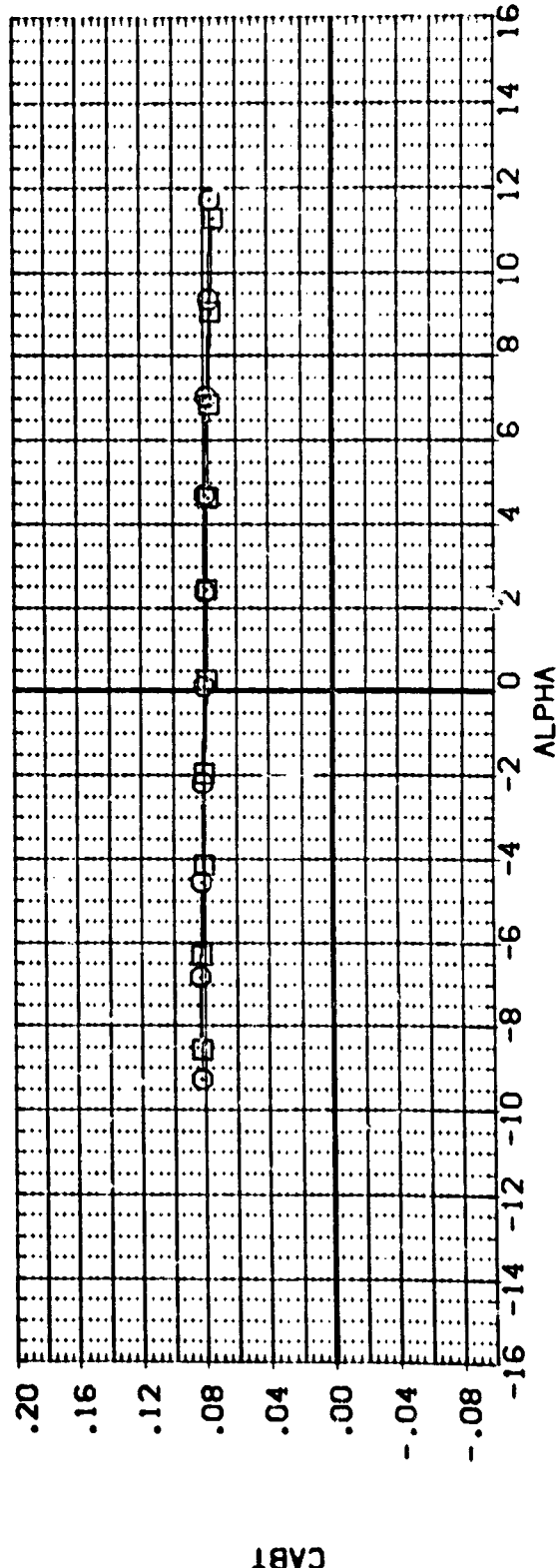
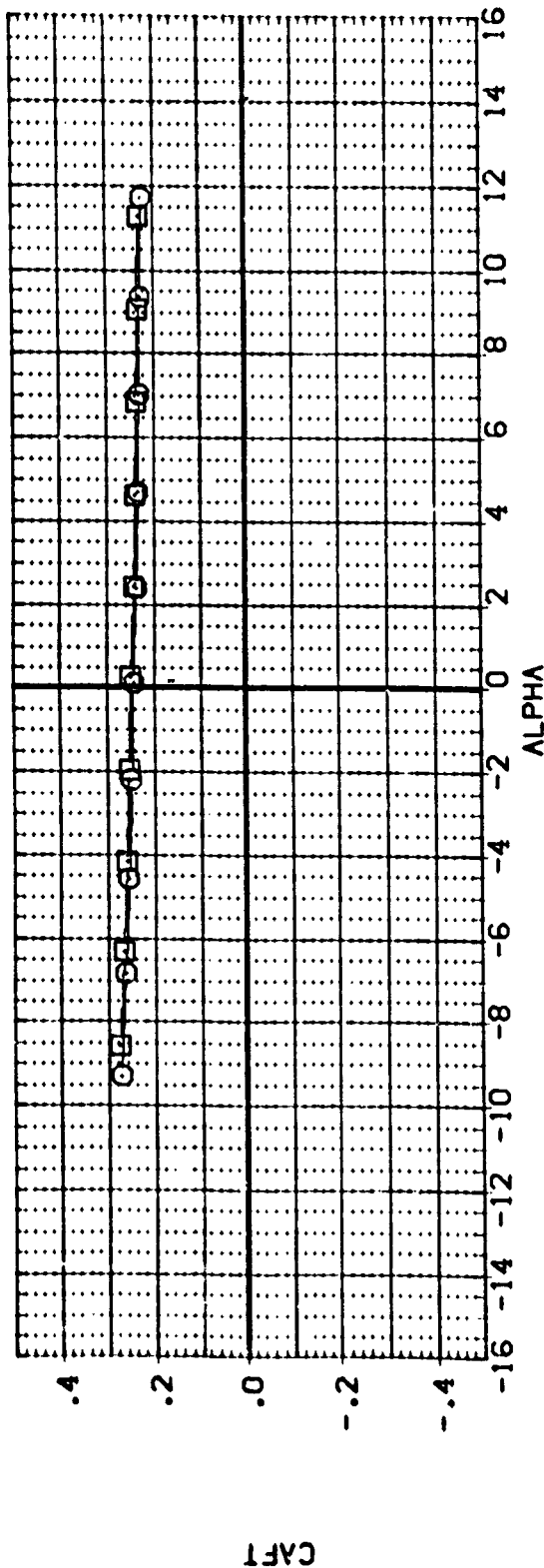
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
1-06008	LRC UPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SQ. FT.
1-06010	LRC UPVT 1056/1073 1A42A/B	5.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(A) MACH = 2.00

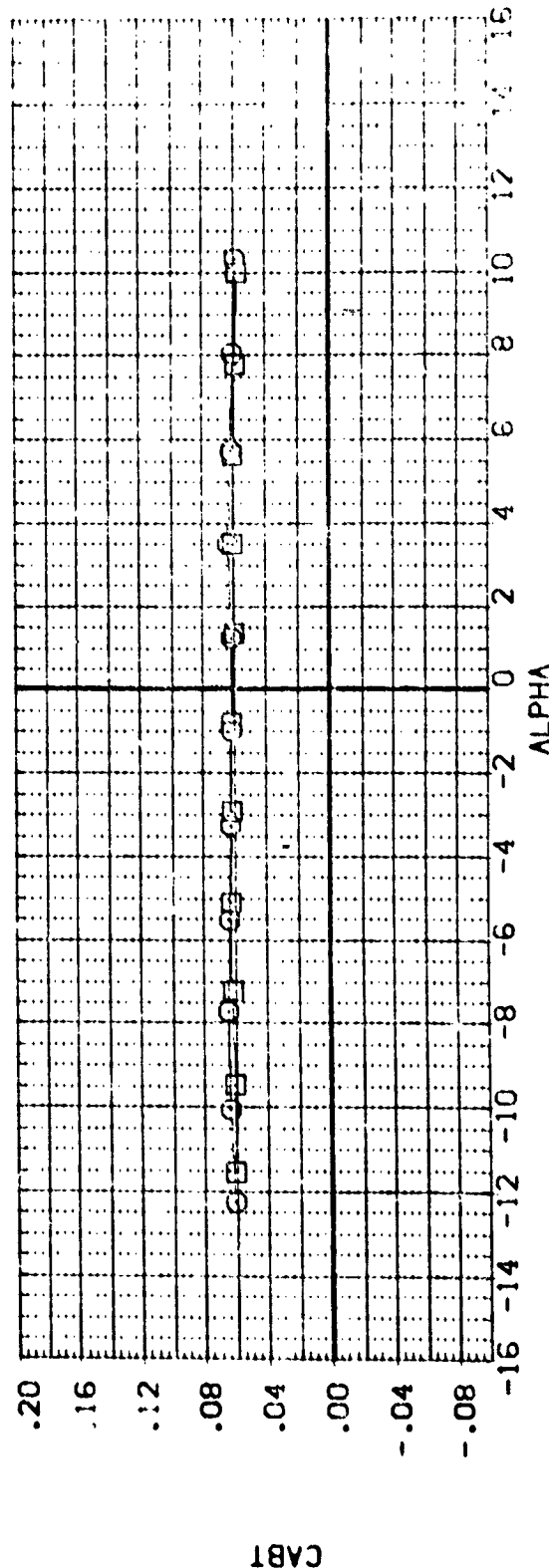
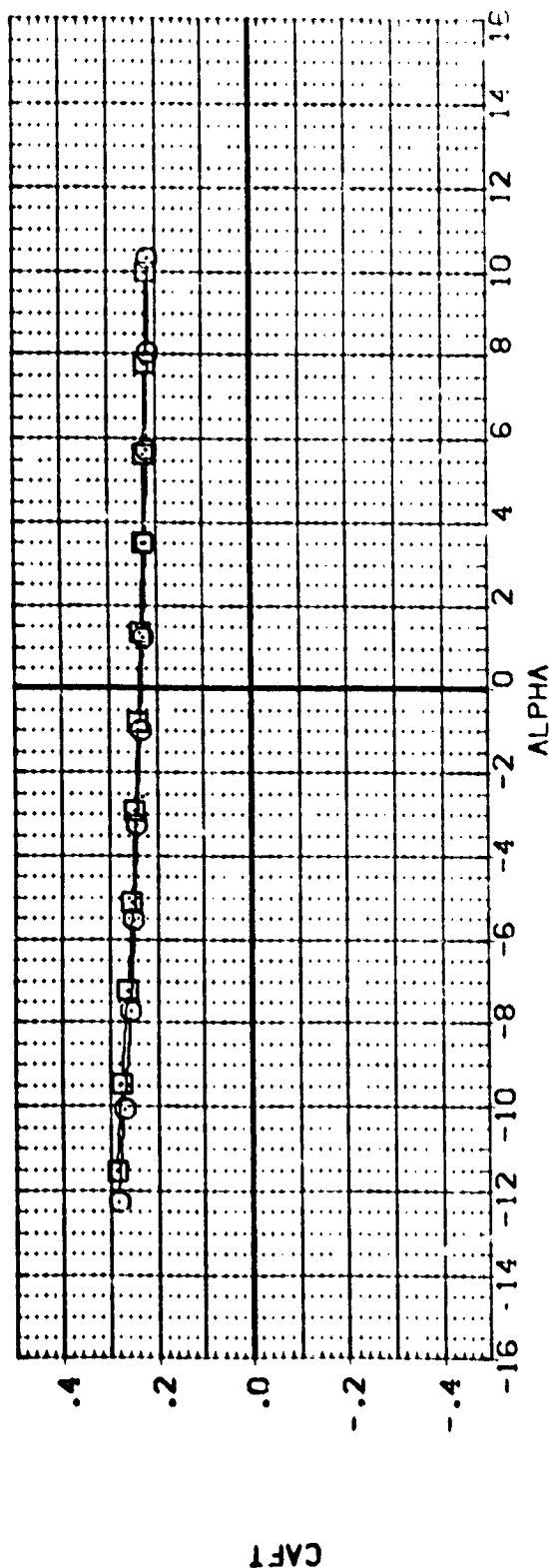
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
1406003	LRC UPVT 105E 1073 1A42A/B	5.000	.000	SREF 2690.0000 50. F
1406015	LRC UPVT 107E 1073 1A42A/B	5.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				VMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
M06008	LRC JUNT 1056/1073 1A42A/B	5.000	0.000	SREF 2630.0000
M06010	LRC JUNT 1056/1073 1A42A/B	5.000	-20.000	LREF 1230.3000
				BREF 1230.3000
				YREF 576.0000
				ZREF 1000.0000
				SCALE 400.0000
				SCALE 10150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

REFERENCE INFORMATION

SREF	2690.0000	SG.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	INCHES
YMRP	.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	.0150	SCALE

BETA RUDDER

BETA	5.000	.000
BETA	5.000	-20.000

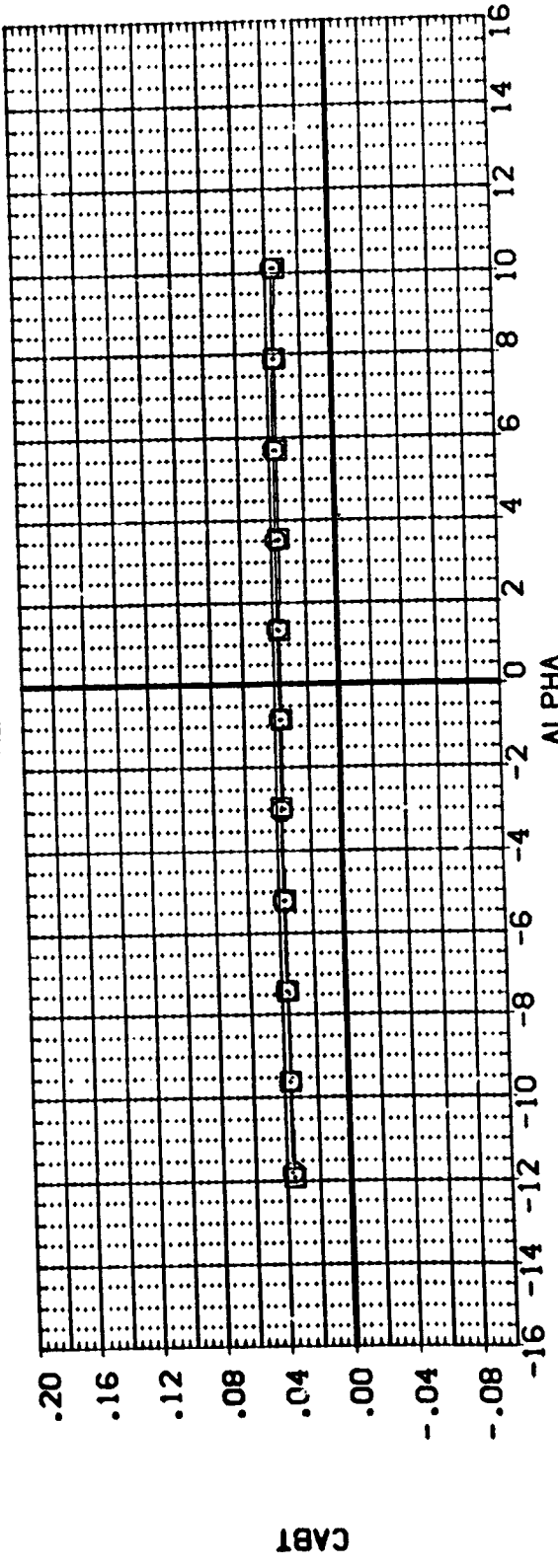
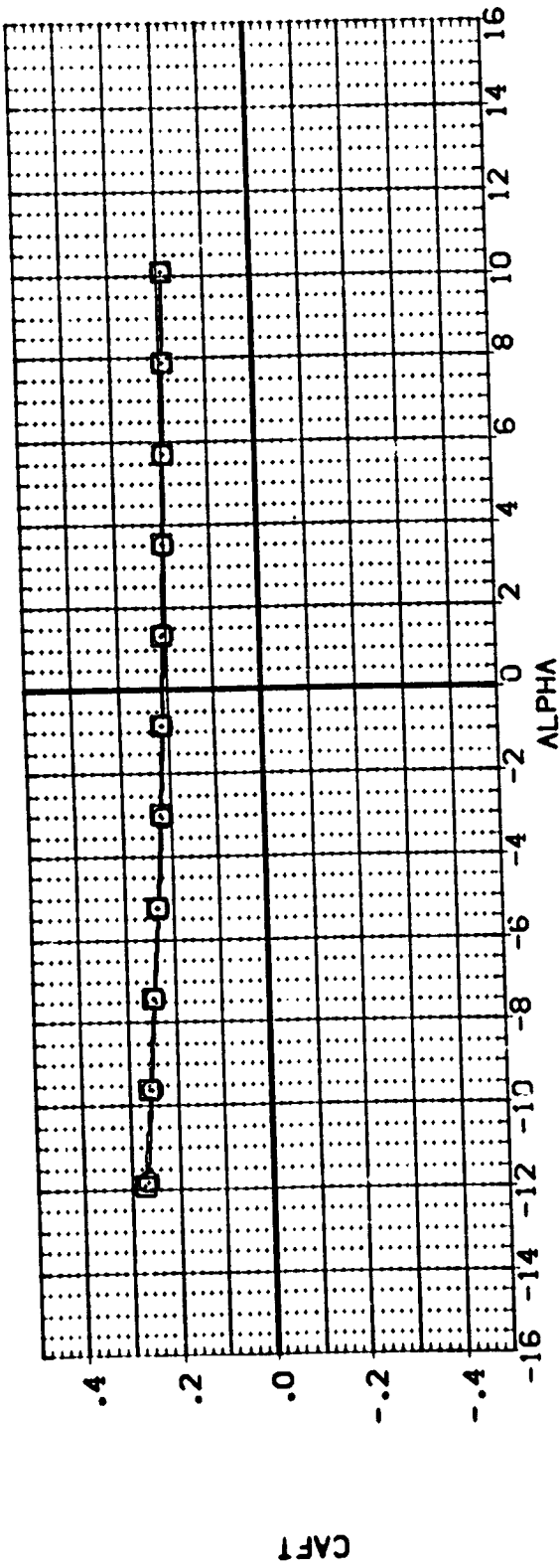
TIPISIP201
TIPISIP201

CONFIGURATION DESCRIPTION

LRC_PVT	1056/1073	1A42A/B
LRC_PVT	1056/1073	1A42A/B

DATA SET SYMBOL

14060021	14060031
----------	----------



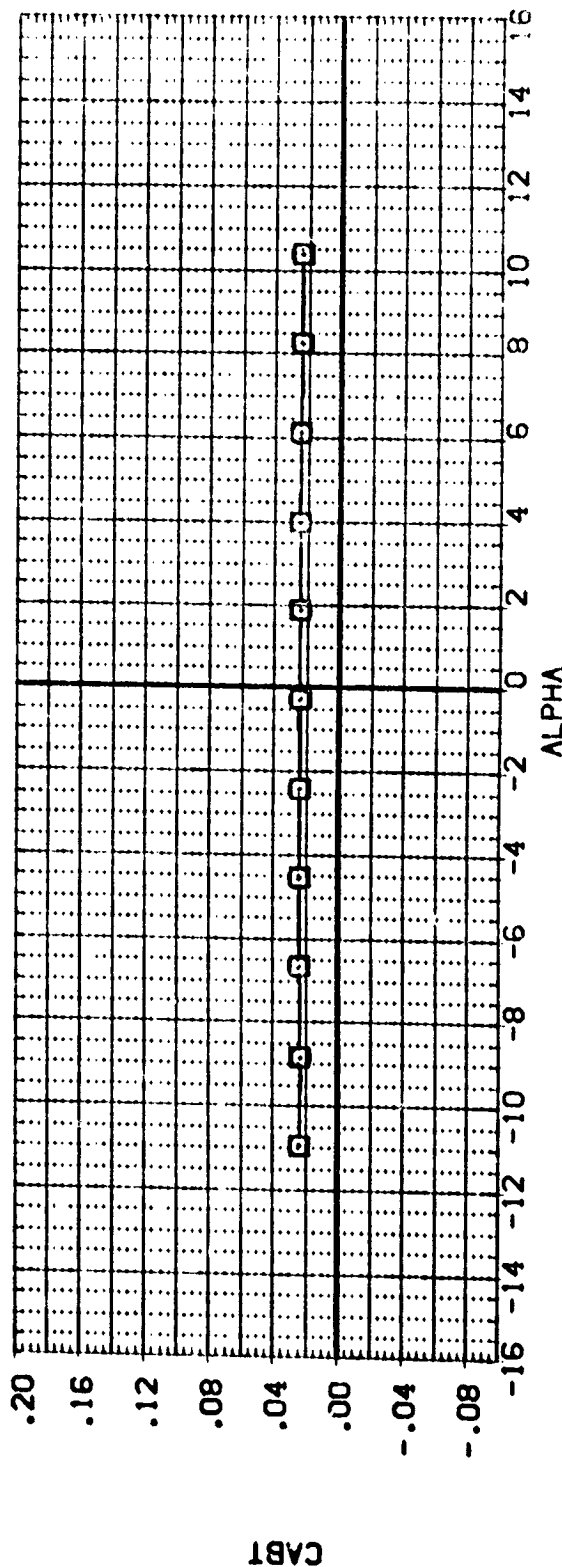
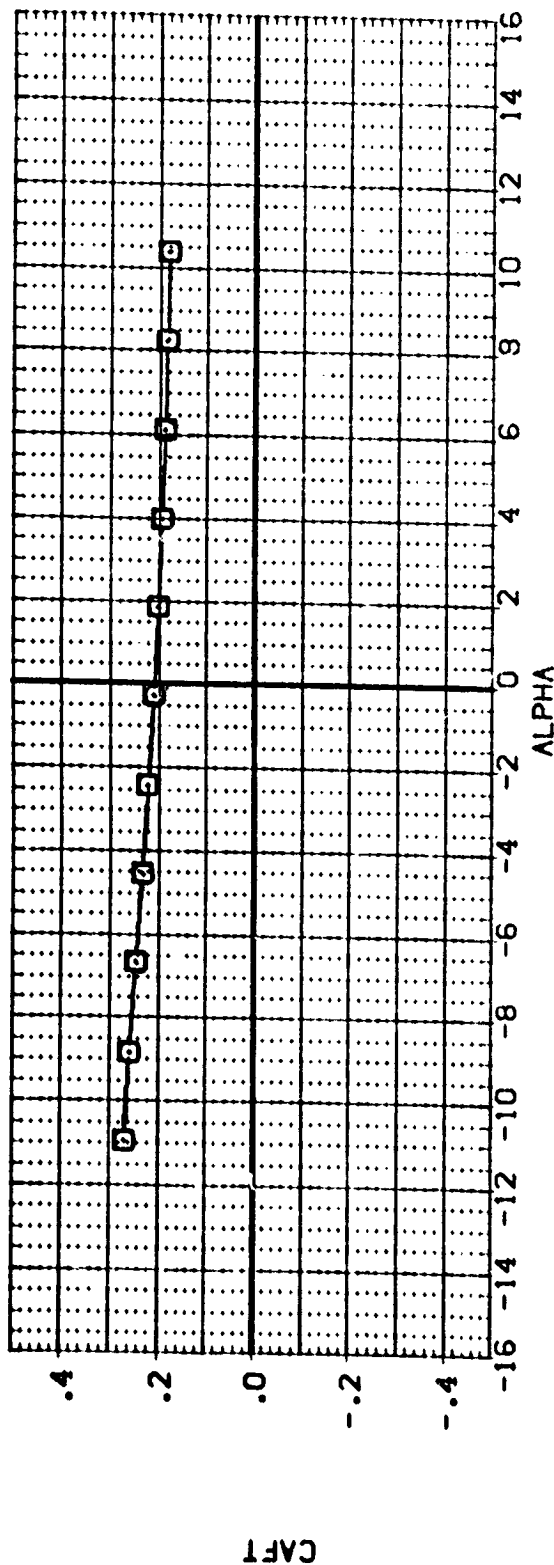
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 3.90

DATA SET SYMBOL: 1405009
 CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B

BETA: 5.000
 RUDDER: 5.000 -20.000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ. FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: 400.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



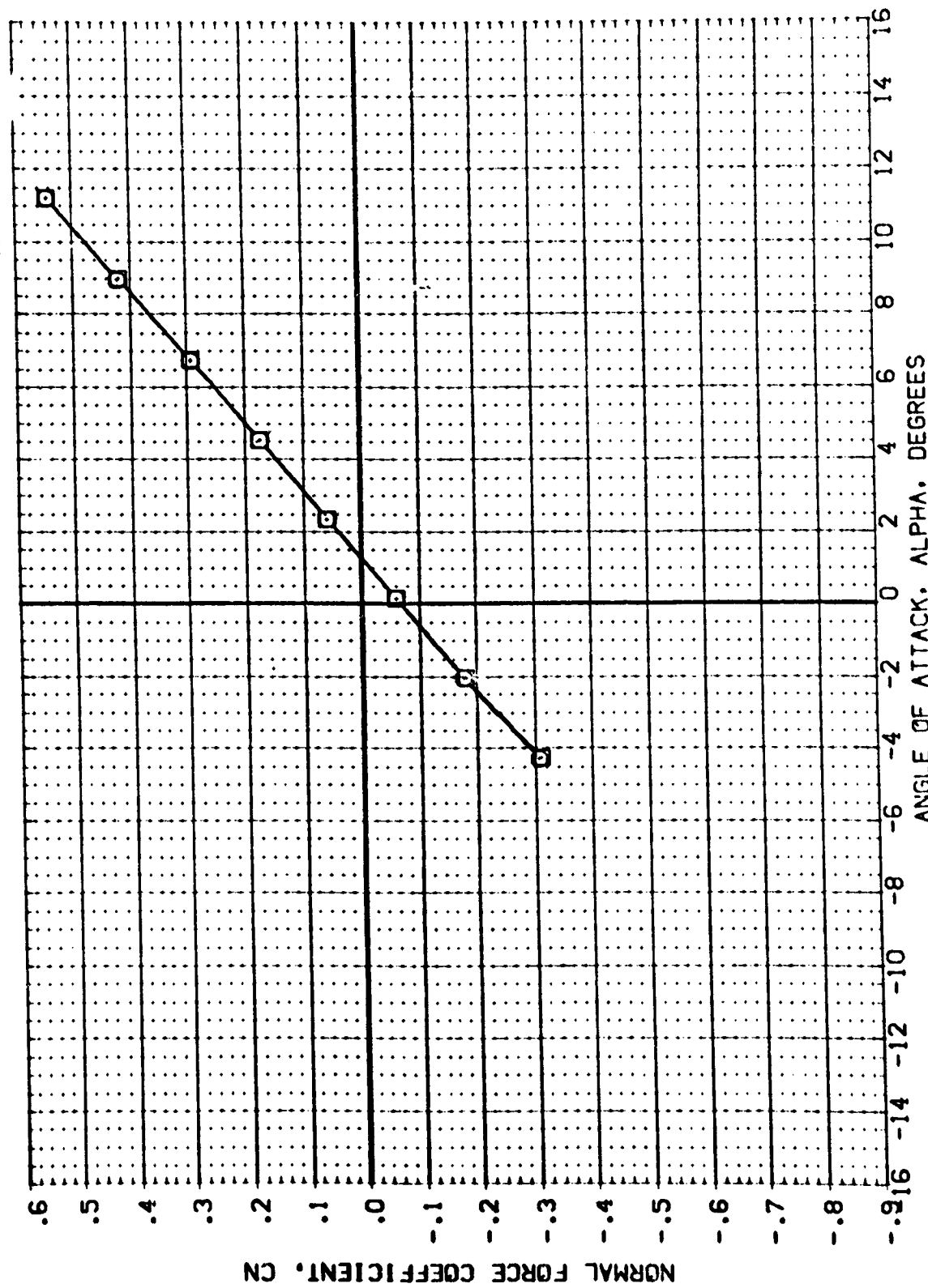
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 1005078 1 LRC JPT 1056/1073 1A42A/B
 1005079 2 LRC JPT 1056/1073 1A42A/B

BETA RUDDER
 5.000 0.000
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2650.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1250.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 10000.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



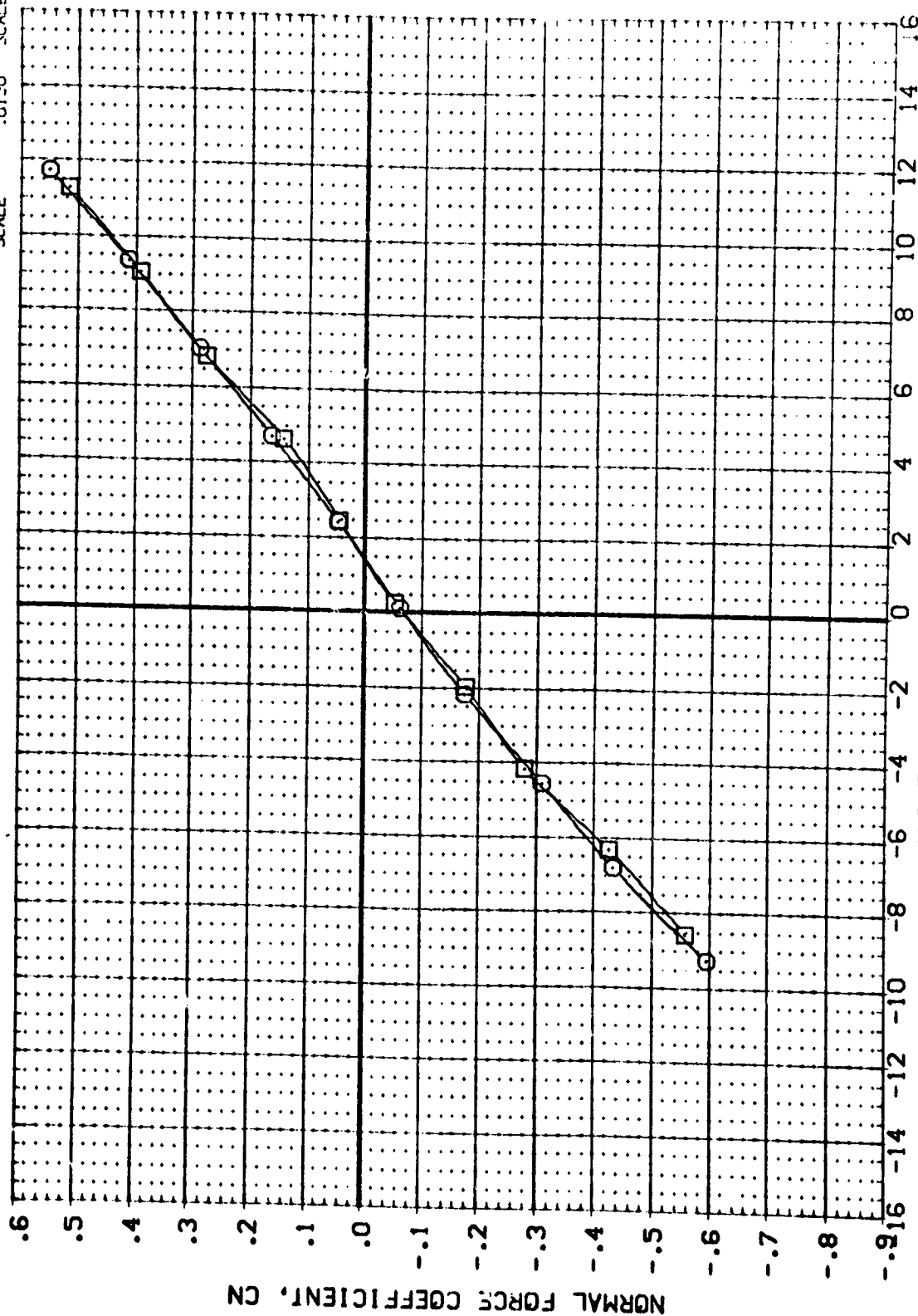
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS
 (A)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 14050101 LRC LPVT 1056/1073 1A42A/B

TIP1SIP201
 TIP1SIP201

BETA RUDDER
 5.000 0.000
 5.000 -20.000

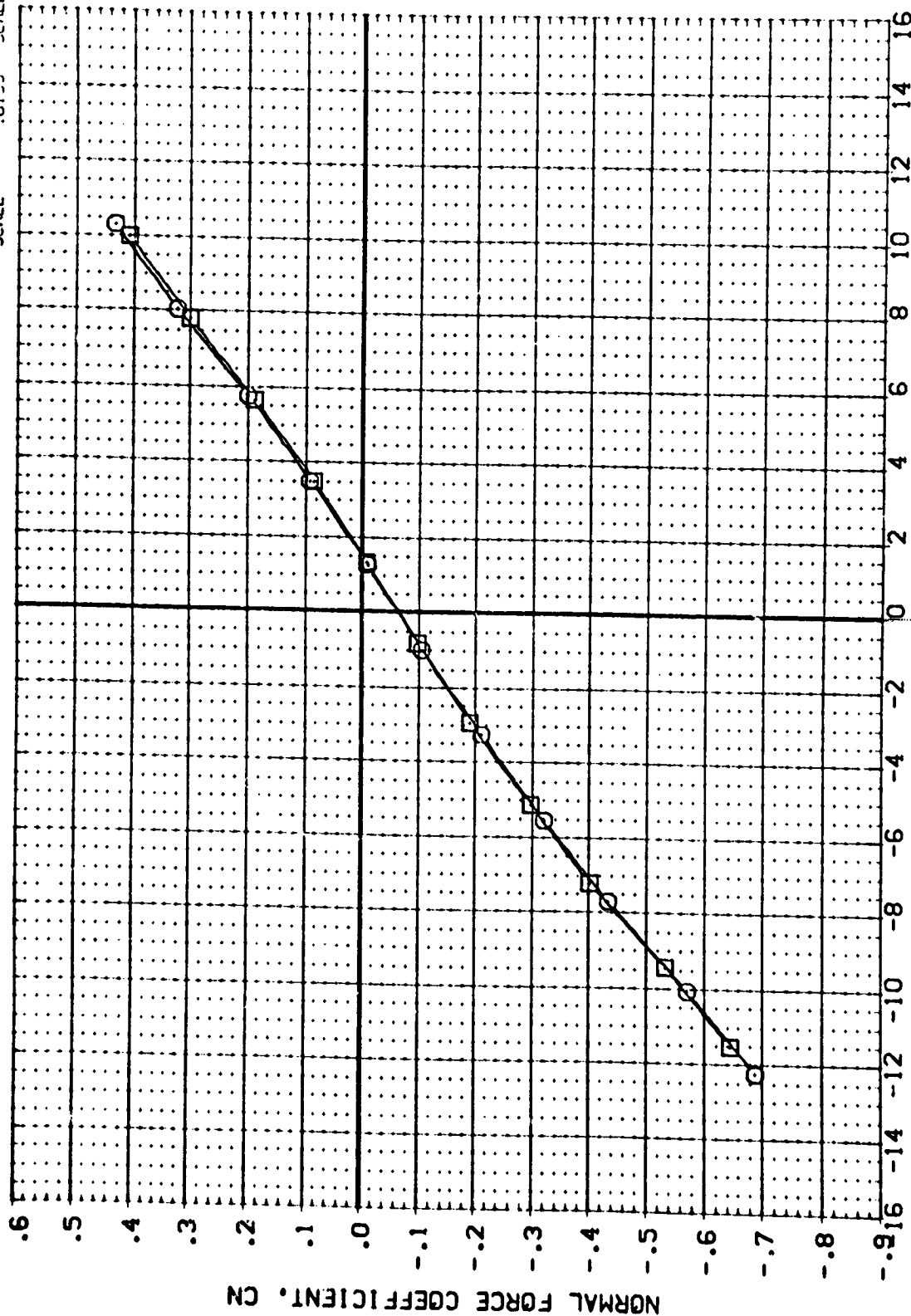
REFERENCE INFORMATION
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 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		RUDDER		REFERENCE INFORMATION	
105008	LRC JV*	1056/1073	1A42A/B	5.000	5.000	-20.000		SREF	2690.0000
105009	LRC JV*	1056/1073	1A42A/B					LREF	1290.3000
								BREF	1230.3000
								XMRP	976.0000
								YMRP	400.0000
								ZMRP	400.0000
								SCALE	.0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

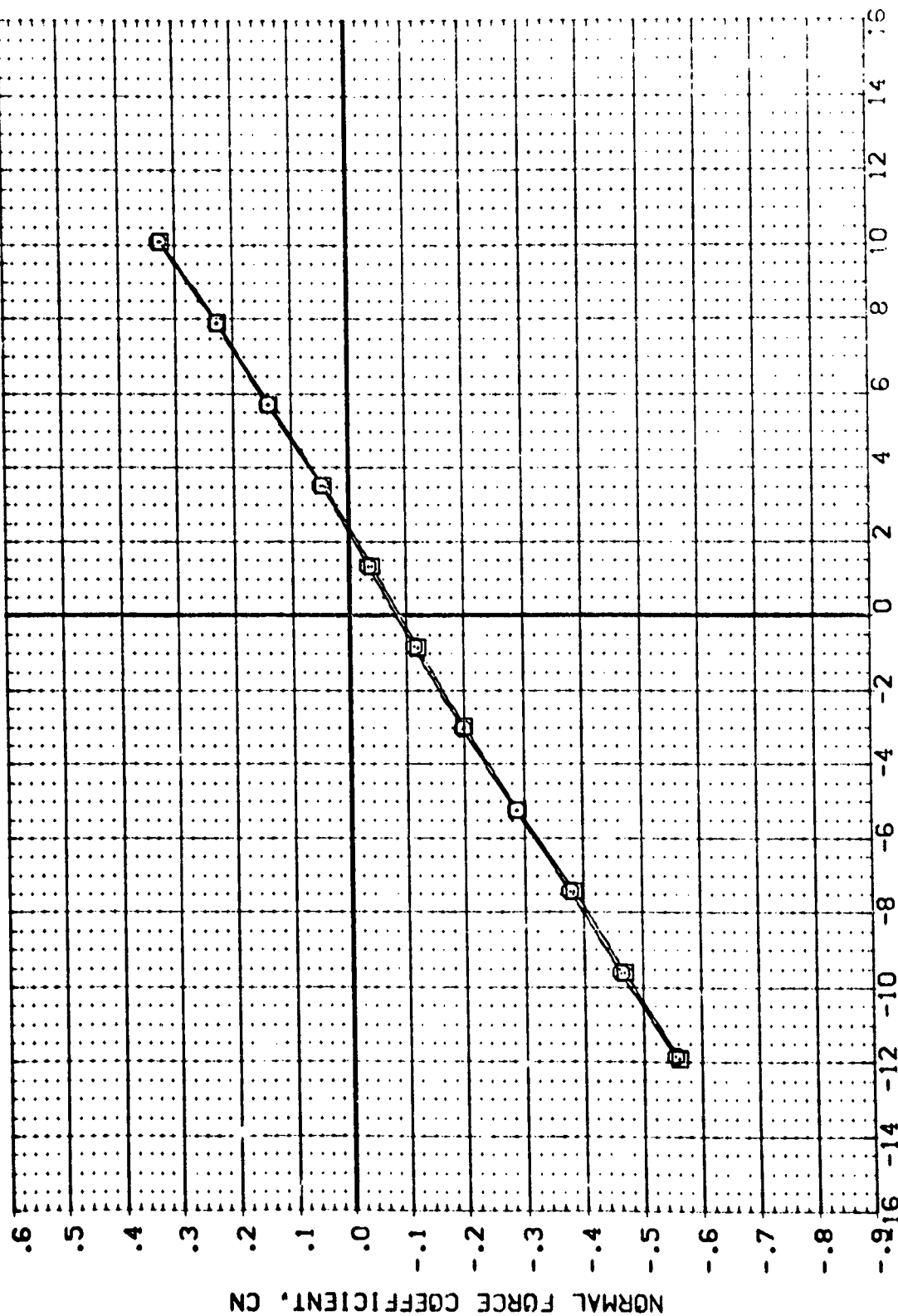


REFERENCE INFORMATION
SREF 2690.0000
LREF 1290.3000
BREF 1290.3000
XMAP 976.0000
YMAP 400.0000
ZMAP 0.0000
SCALE 0.010

BETA RUDDER
5.000 .000
5.000 -20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
H060081 LRC UPVT 1056/1073 1A42A/B
H060101 LRC UPVT 1056/1073 1A42A/B

TIPISIP201
TIPISIP201



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

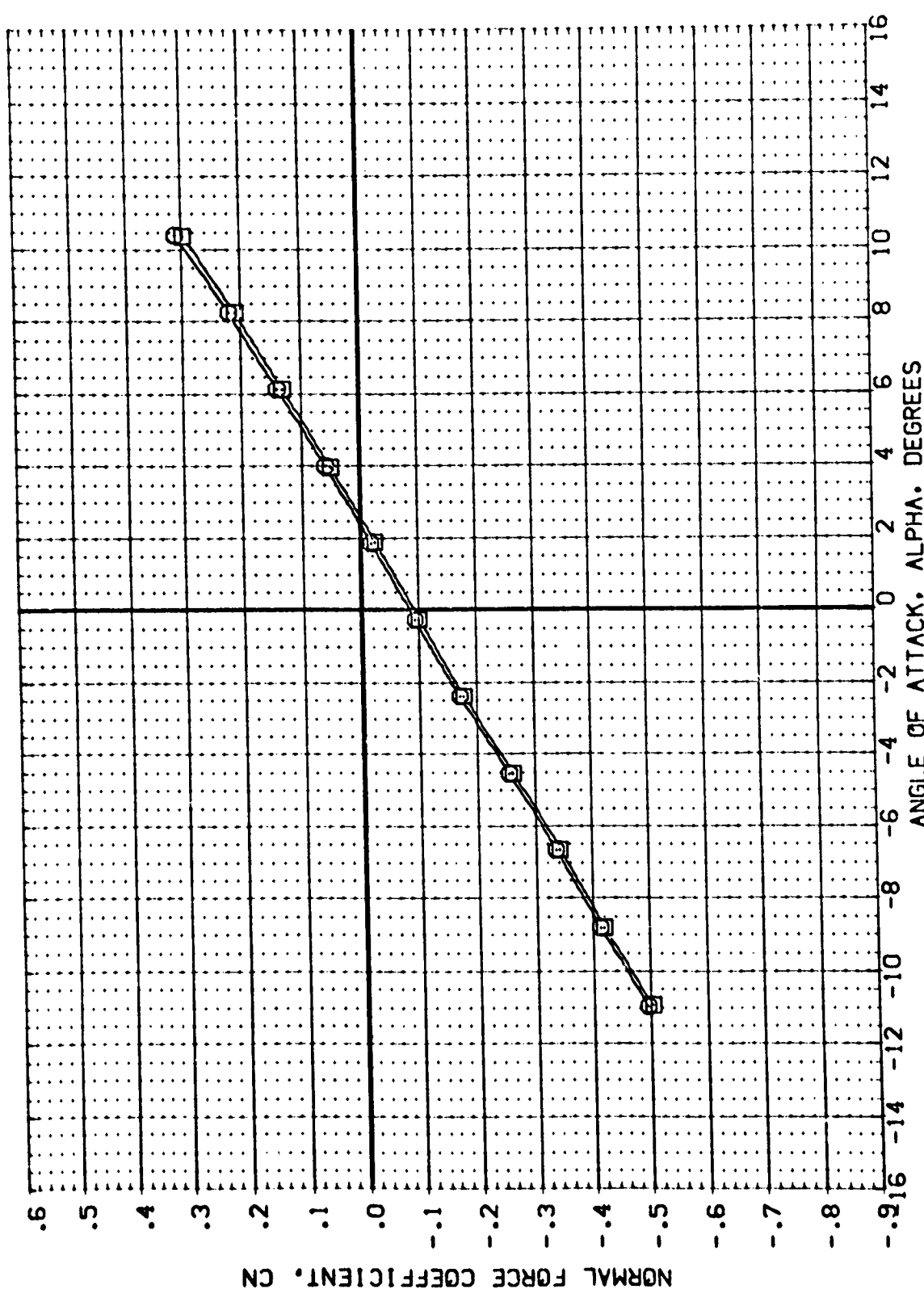
(0)MACH = 3.90

REFERENCE INFORMATION
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 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 XMRP 576.0000 INCHES
 YMRP 1.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150

BETA RUDDER
 5.000 .000
 5.000 -20.000

TIP(SIP20)
 TIP(SIP20)

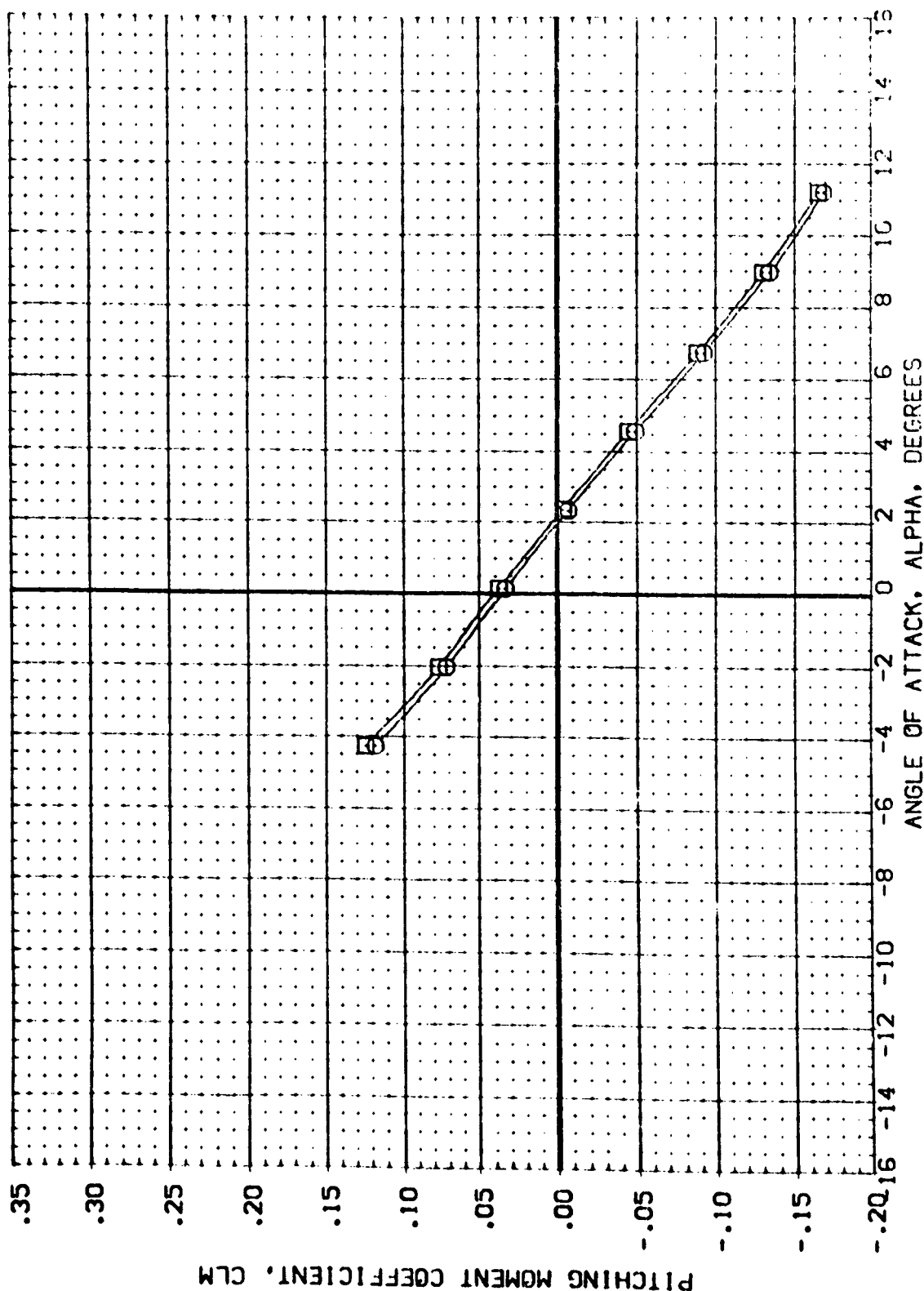
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 M05008 LRC JVT 1056/1073 1A42AB
 M05009 LRC JVT 1056/1073 1A42AB



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

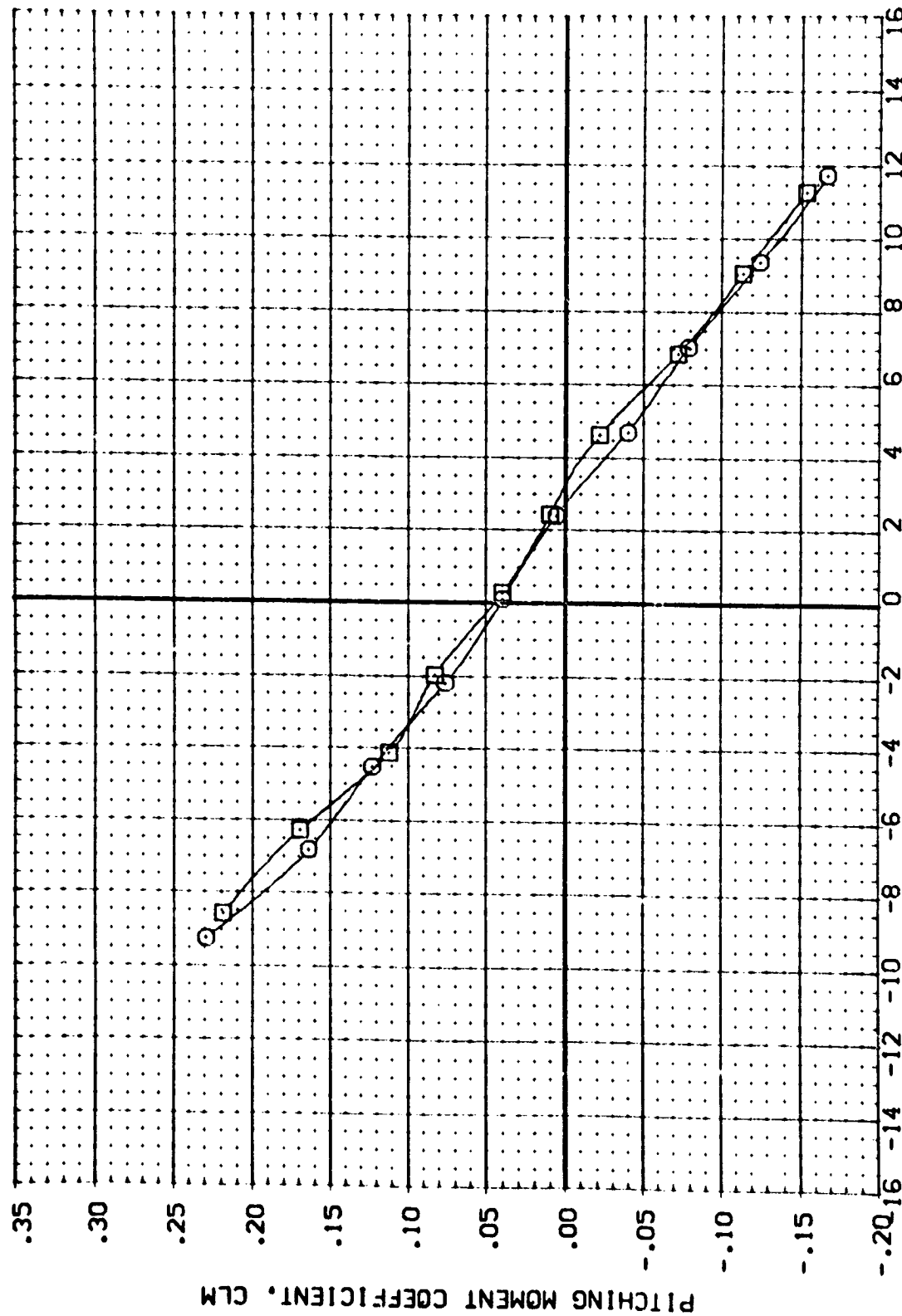
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		RUDDER		REFERENCE INFORMATION	
14060091	14060101	LRC JVT 1056/1073	1442A/B	TIPISIP201	TIPISIP201	5.000	5.000	SREF	2690.0000
		LRC JVT 1056/1073	1442A/B			5.000	-20.000	LREF	1290.3000
								BREF	1290.3000
								XMRP	976.0000
								YMRP	0.0000
								ZMRP	400.0000
								SCALE	1.0000



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
1405009	LRC JV-1056/1073 1442A/B	5.000	.000	SREF 2690.0000 SQ. FT.
1405010	LRC JV-1056/1073 1442A/B	5.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				VMFP 976.0000 INCHES
				ZMFP 400.0000 INCHES
				SCALE 10.000



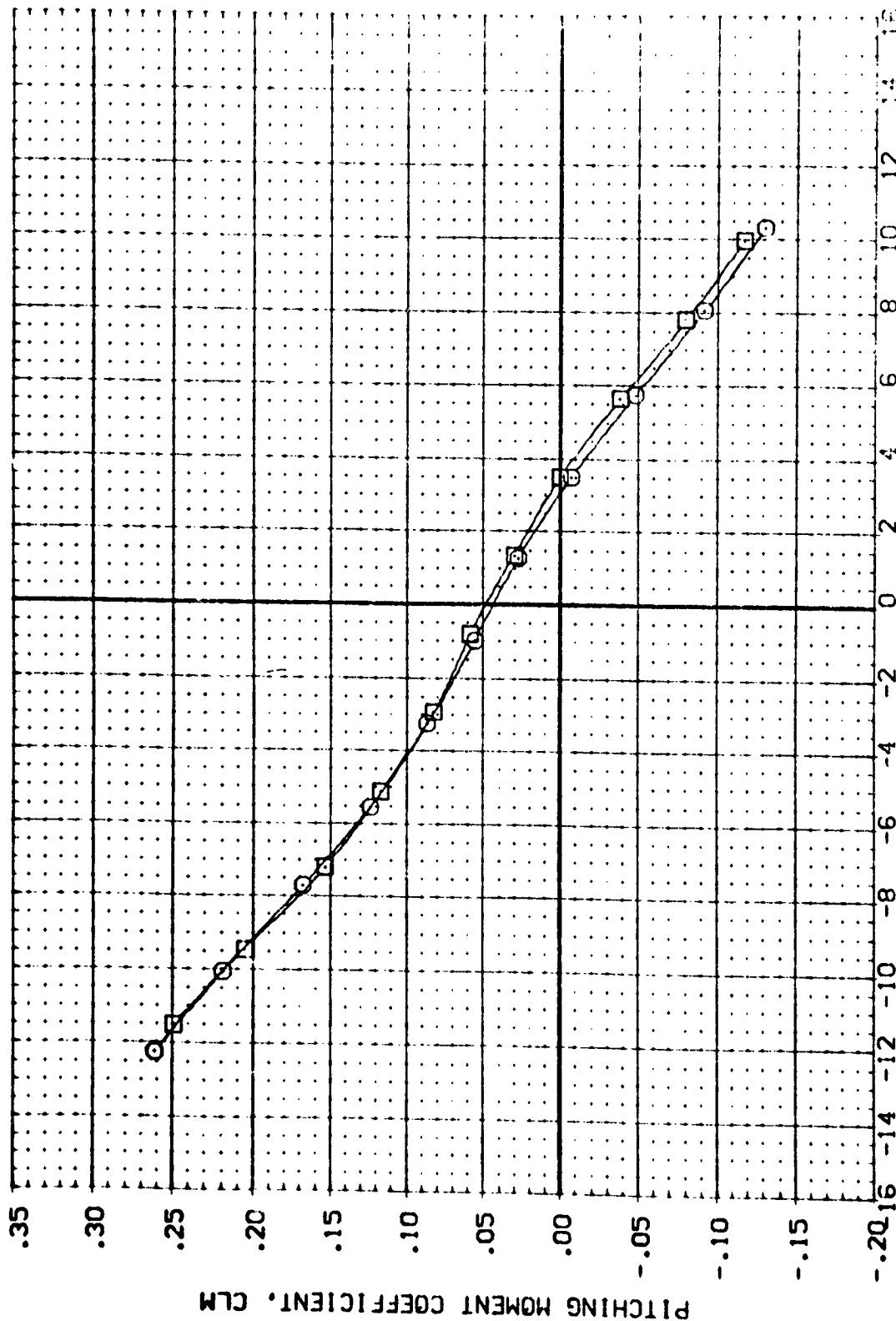
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H06008) LRC JPT 1056/1073 1A42A/B
 (H06010) LRC JPT 1056/1073 1A42A/B

BETA RUDDER
 5.000 5.000
 -20.000

REFERENCE INFORMATION
 SREF 2650.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 YMRP 976.0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

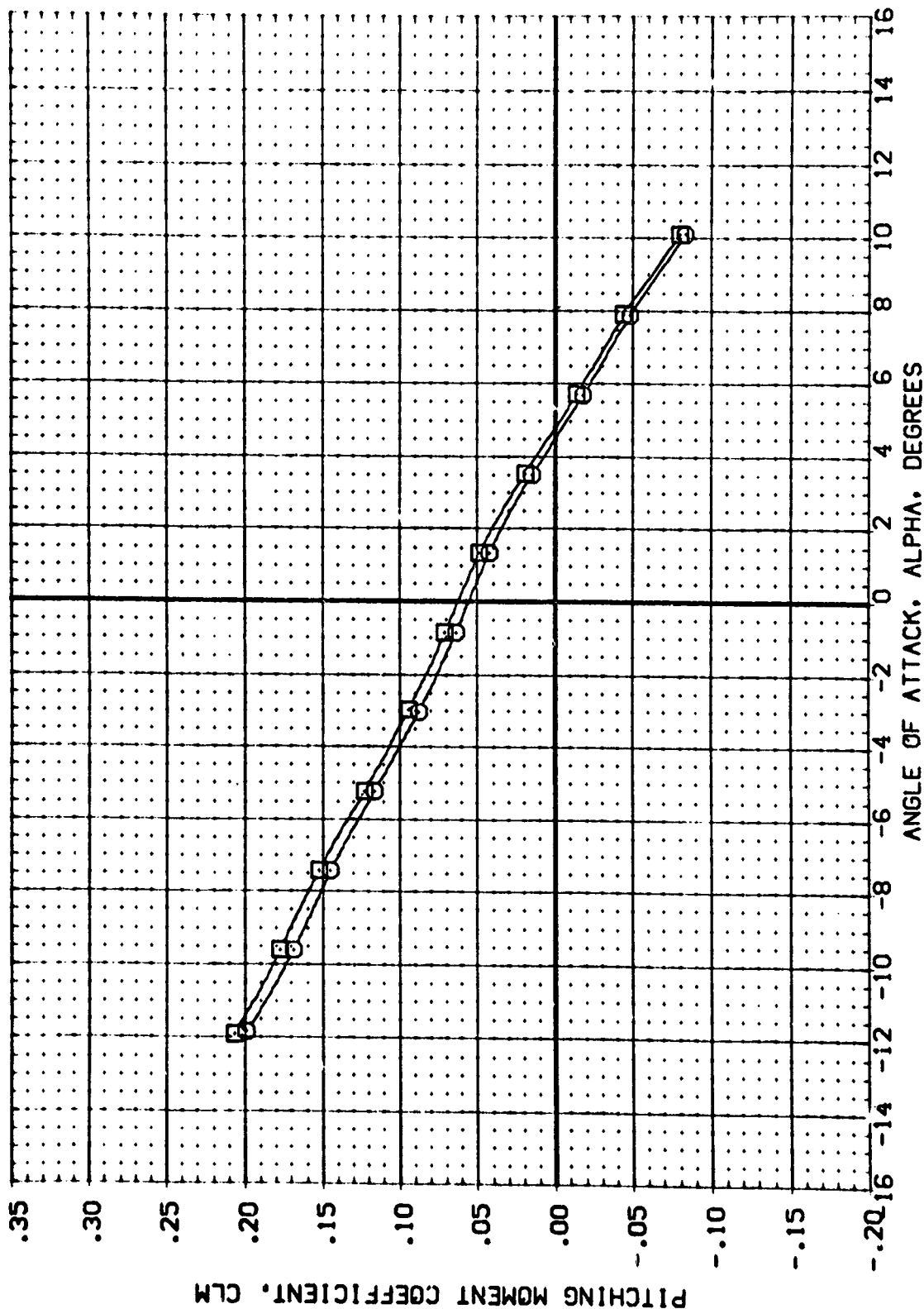


EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

PAGE 97

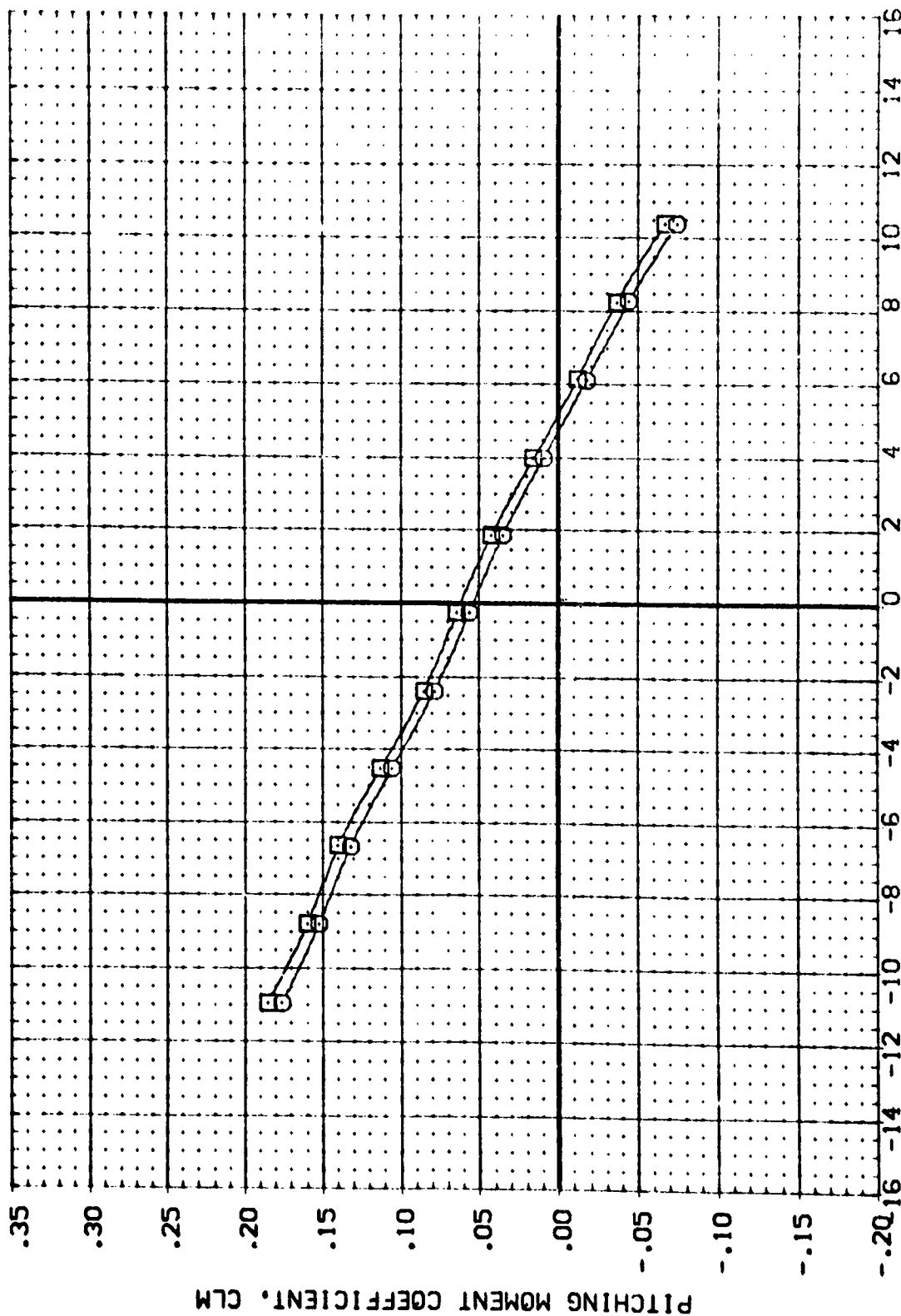
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
H060031	LRC UPVT 1056/1073 1A42A/B	5.000	.000	SKREF 2630.0000 SQ.FT.
H060101	LRC UPVT 1056/1073 1A42A/B	5.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				VMAP 576.0000 INCHES
				VMAP 576.0000 INCHES
				ZMAP 400.0000 INCHES
				SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		TIP ISIP201		BETA		RUDDER		REFERENCE INFORMATION	
(M06008)	(M06010)	LRC LPVT 1056/1073	IA42A/B	TIP ISIP201	TIP ISIP201	5.000	5.000	.000	.000	SREF	2690.0000
		LRC LPVT 1056/1073	IA42A/B							LREF	1290.3000
										BREF	1290.3000
										YMRP	976.0000
										ZMRP	976.0000
										SCALE	400.0000
											INCHES
											SCALE
											INCHES



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

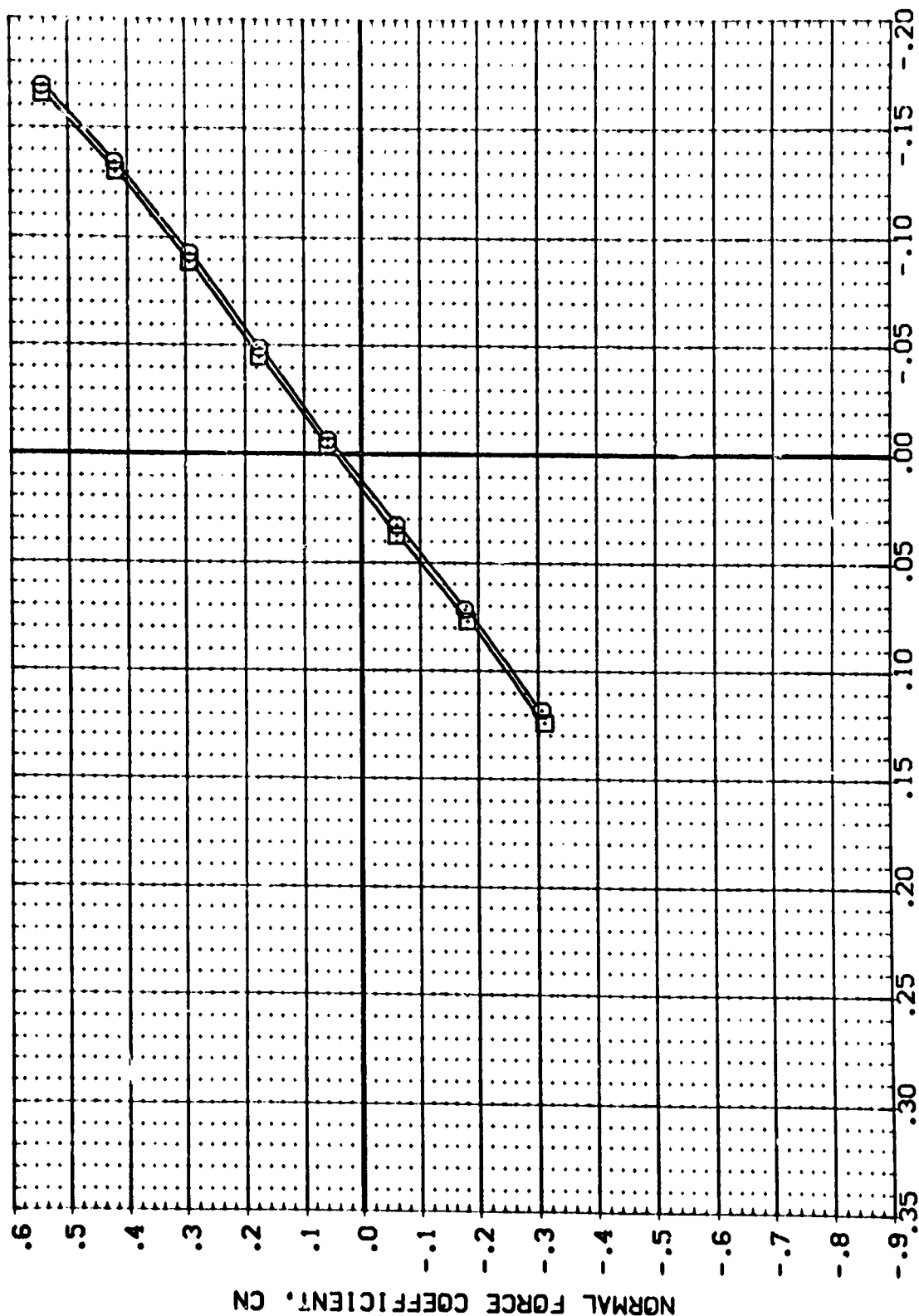
(E)MACH = 4.63

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.0000 INCHES
 BREF 1290.0000 INCHES
 XPRP 976.0000 INCHES
 YPRP 1000.0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0120

BETA RUDDER
 5.000 .000
 5.000 -20.000

TIPISIP201
 TIPISIP201

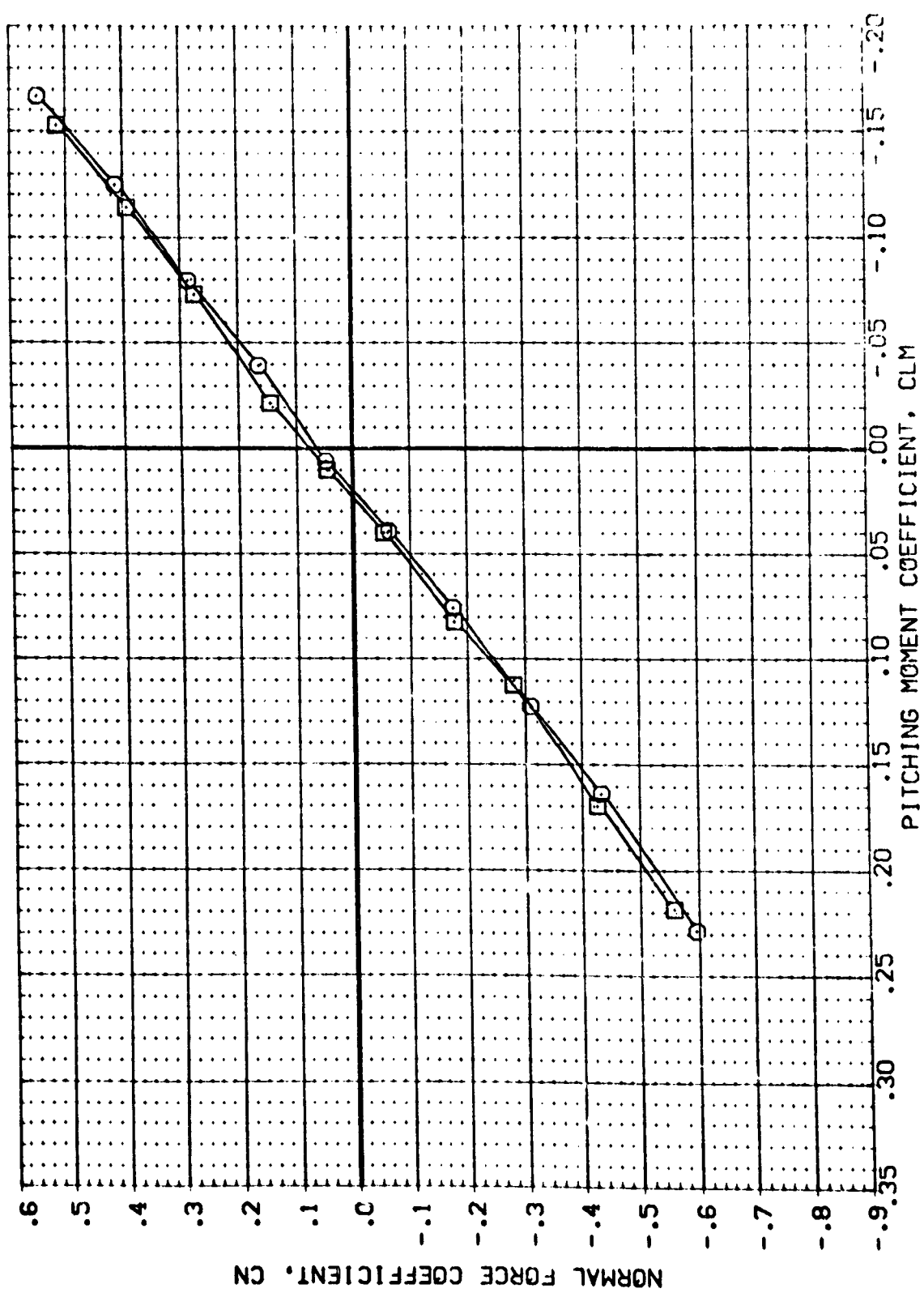
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H050081) LRC UPVT 1056/1073 1A42A/B
 (H050101) LRC UPVT 1056/1073 1A42A/B



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(H05008)	LRC UPVT 1056/1073 1A42A/B	5.000	0.00	SREF 2690.0000
(H05010)	LRC UPVT 1056/1073 1A42A/B	5.000	-20.000	LREF 1290.3000
				BREF 1290.3000
				XMRP 576.0000
				YMRP .0000
				ZMRP 400.0000
				SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

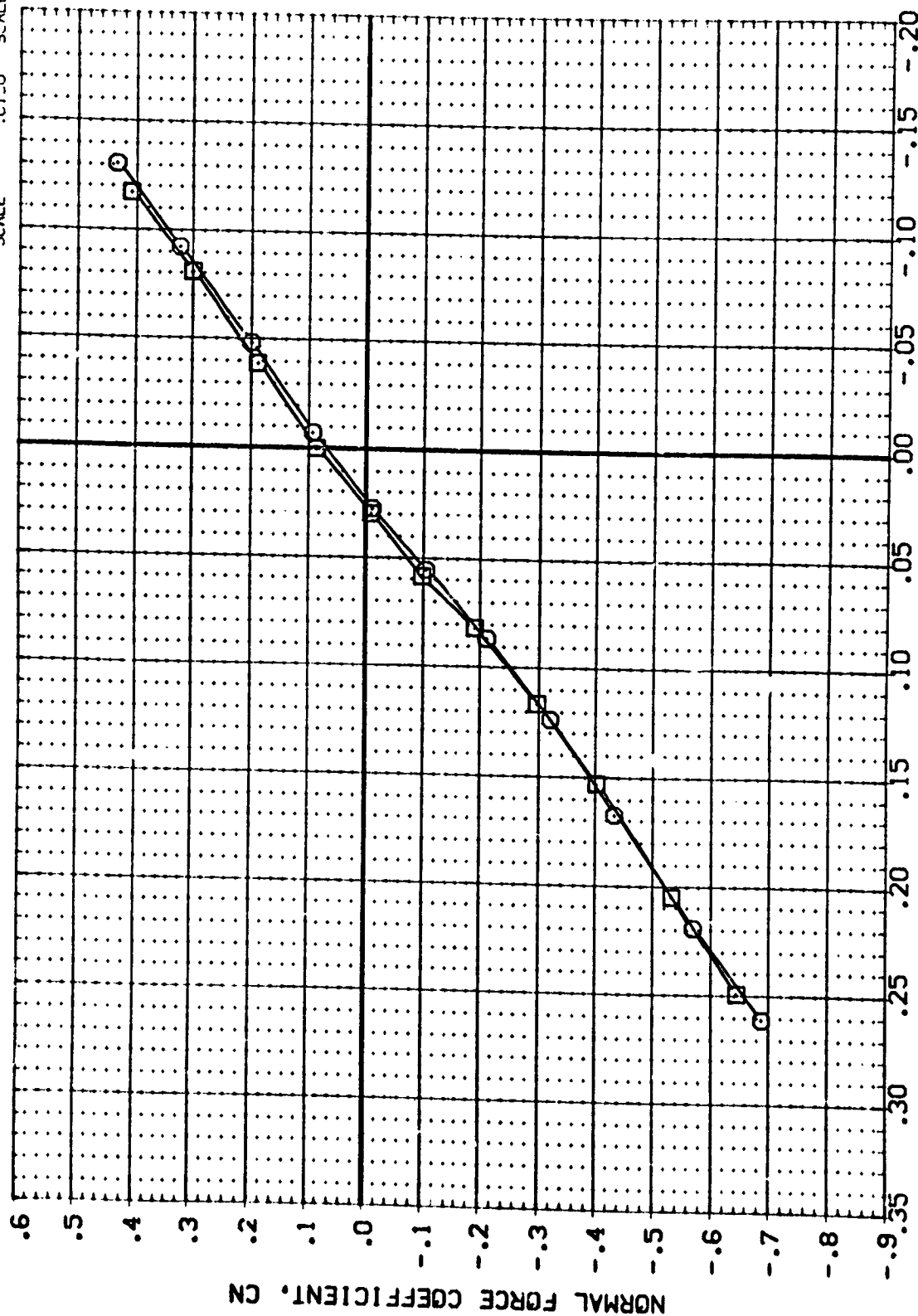
(B)MACH = 2.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H05003) LRE UPVT 1055/1073 1A42A/B
 (H05013) LRE UPVT 1055/1073 1A42A/B

TIPISIP201
 TIPISIP201

BETA RUDDER
 5.000 .000
 5.000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



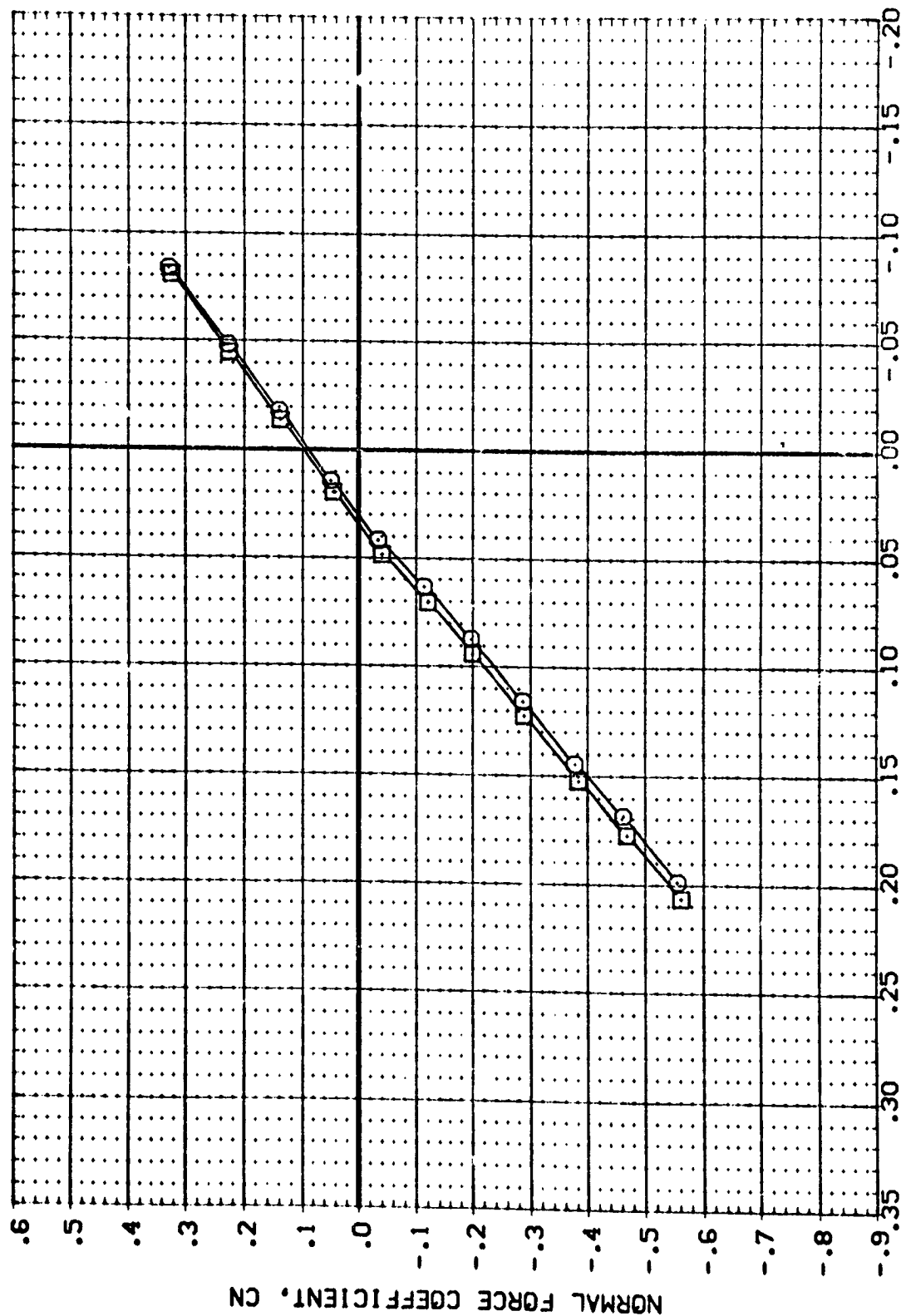
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

DATA SET SYMBOL: (H05008) (H05010)
 CONFIGURATION DESCRIPTION: LRC LPVT 1056/1073 1A42A/B LRC LPVT 1056/1073 1A42A/B
 TIP(SIP20) TIP(SIP20)

BETA: 5.000 5.000
 RUDDER: .000 -20.000

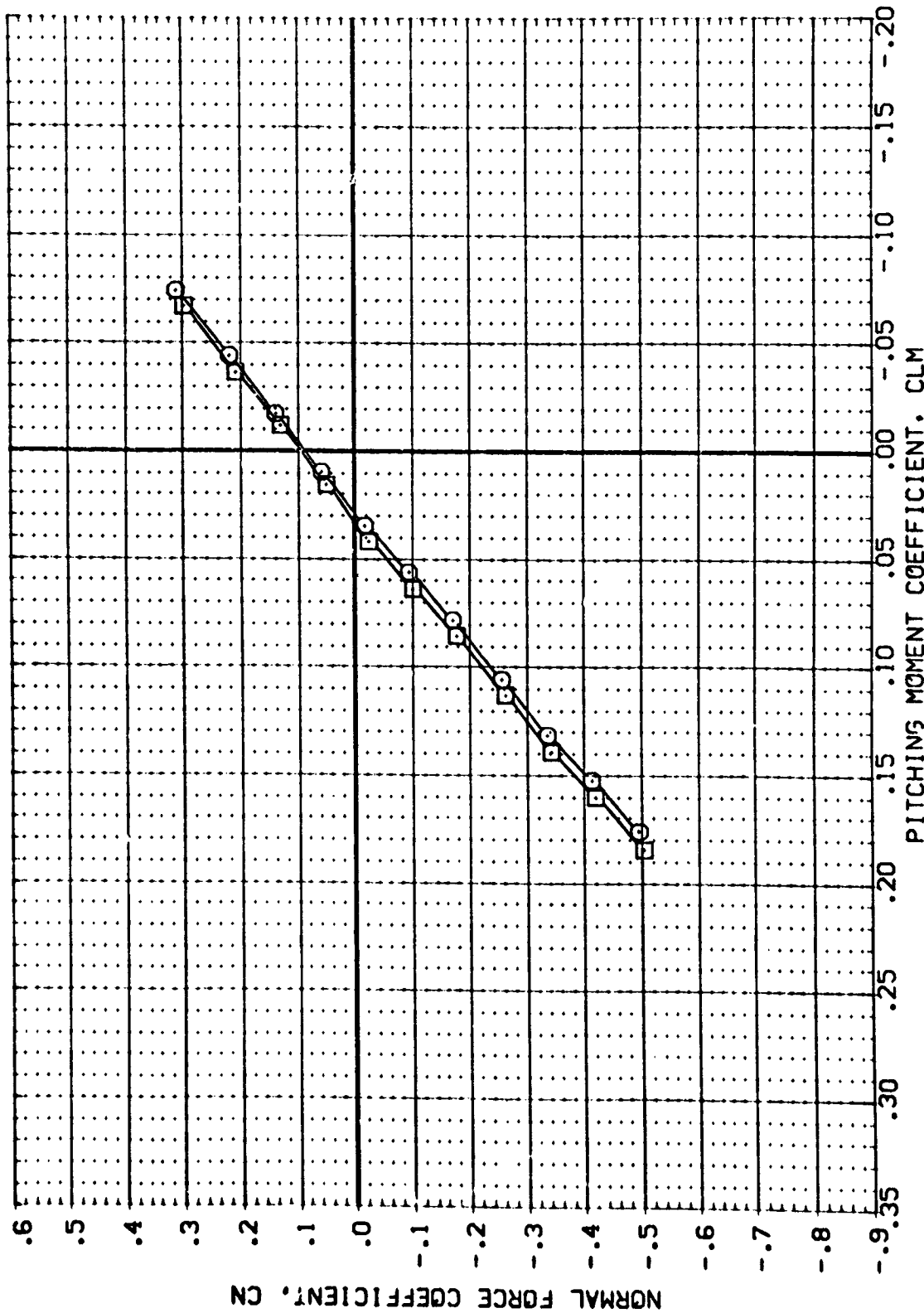
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 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: .0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150 SCALE



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION	
H050C81	()	LRC PUT 1056/1073 1A42A/B	5.000	.000	SRET	2690.0000 SQ. FT.
H050D13	()	LRC PUT 1056/1073 1A42A/B	5.000	-20.000	LREF	1290.3000 INCHES
					BREF	1290.3000 INCHES
					XMRP	976.0000 INCHES
					YMRP	400.0000 INCHES
					ZMRP	400.0000 INCHES
					SCALE	.0150 SCALE



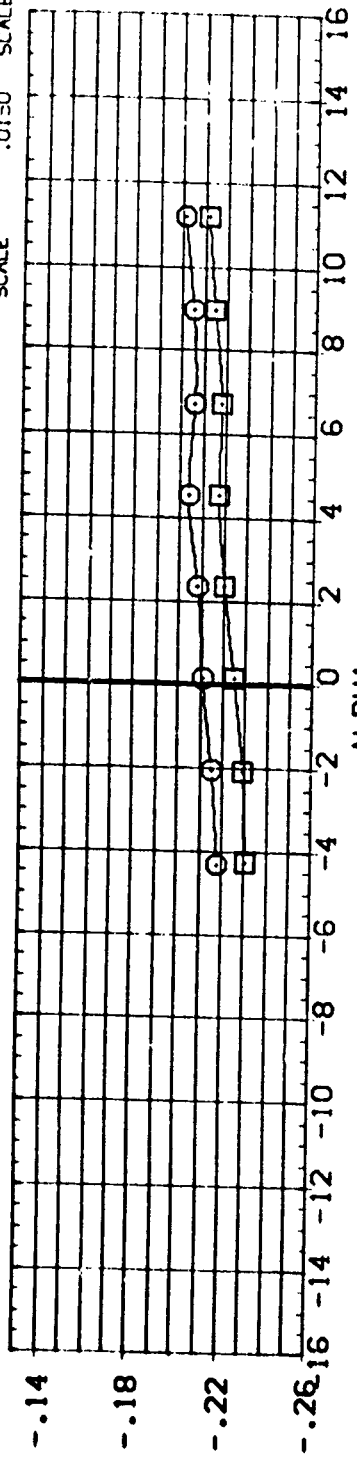
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63

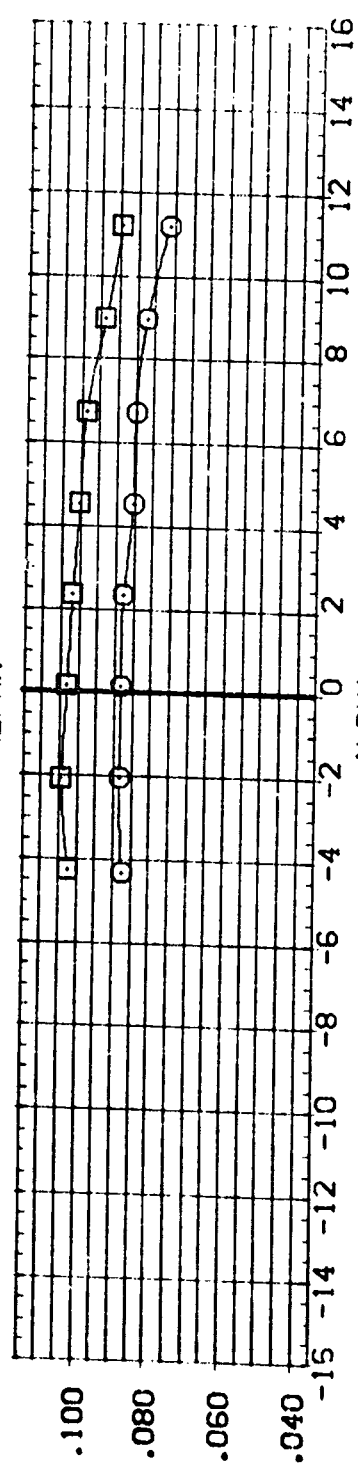
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R06008) LRC JPT 1056/1073 1A42A/B
 (R06010) LRC JPT 1056/1073 1A42A/B

BETA RUDDER
 5.000 5.000
 5.000 -20.000

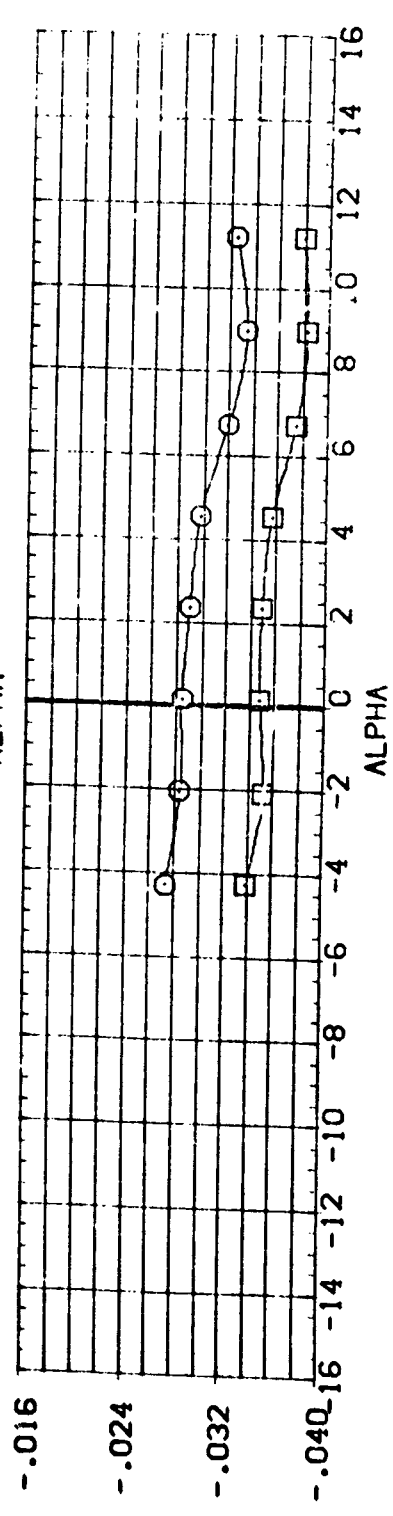
REFERENCE INFORMATION
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 LREF 1290.3000 INCHES
 BRFL 1290.3000 INCHES
 XPRP 976.0000 INCHES
 YPRP .0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .0150



CY



CYN



CBL

EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 2.00

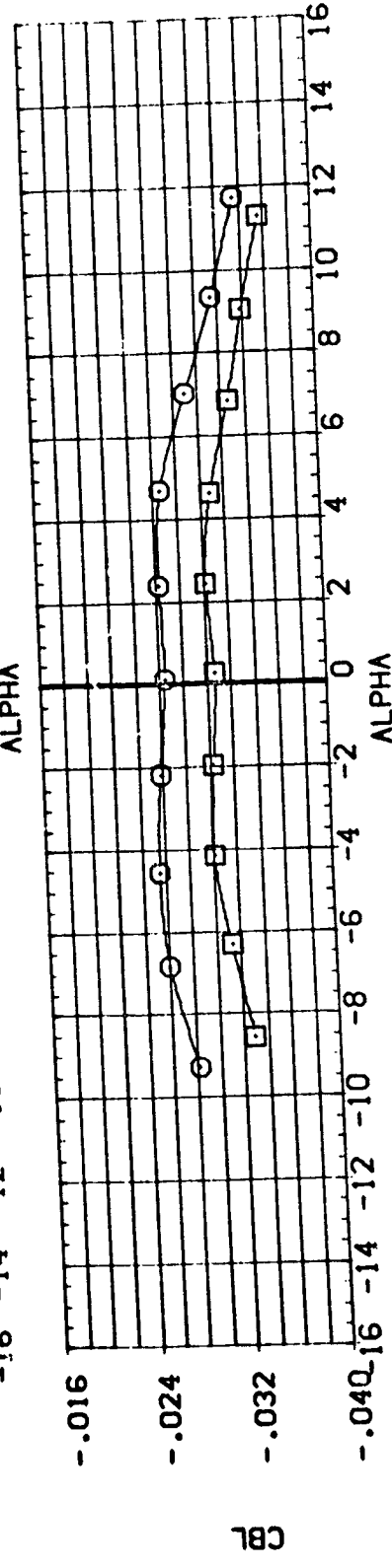
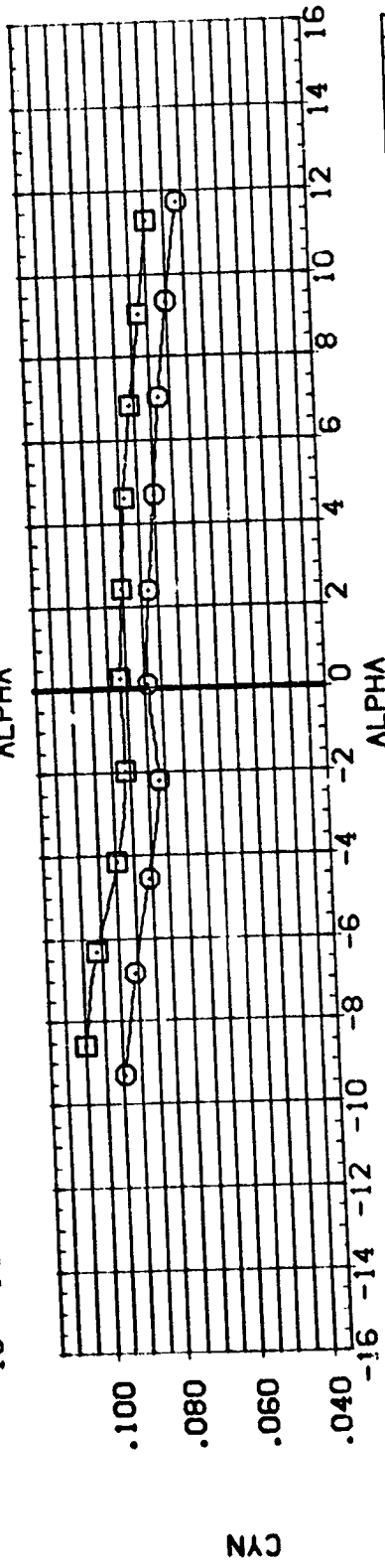
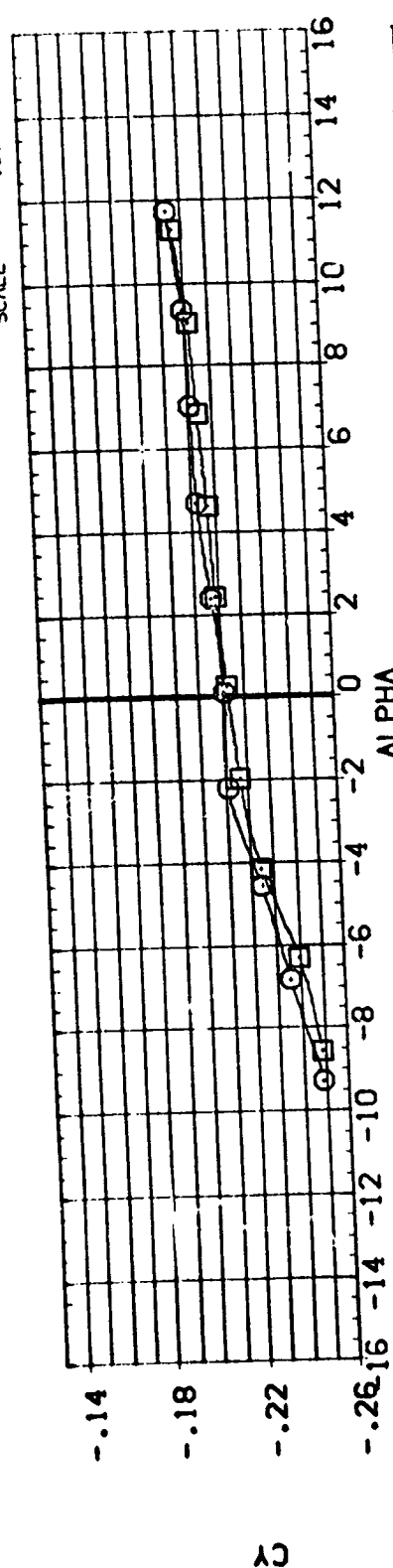


REFERENCE INFORMATION
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 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 SCALE

BETA RUDDER
 5.000 .000
 5.000 -20.000

TIPISIP201
 TIPISIP201

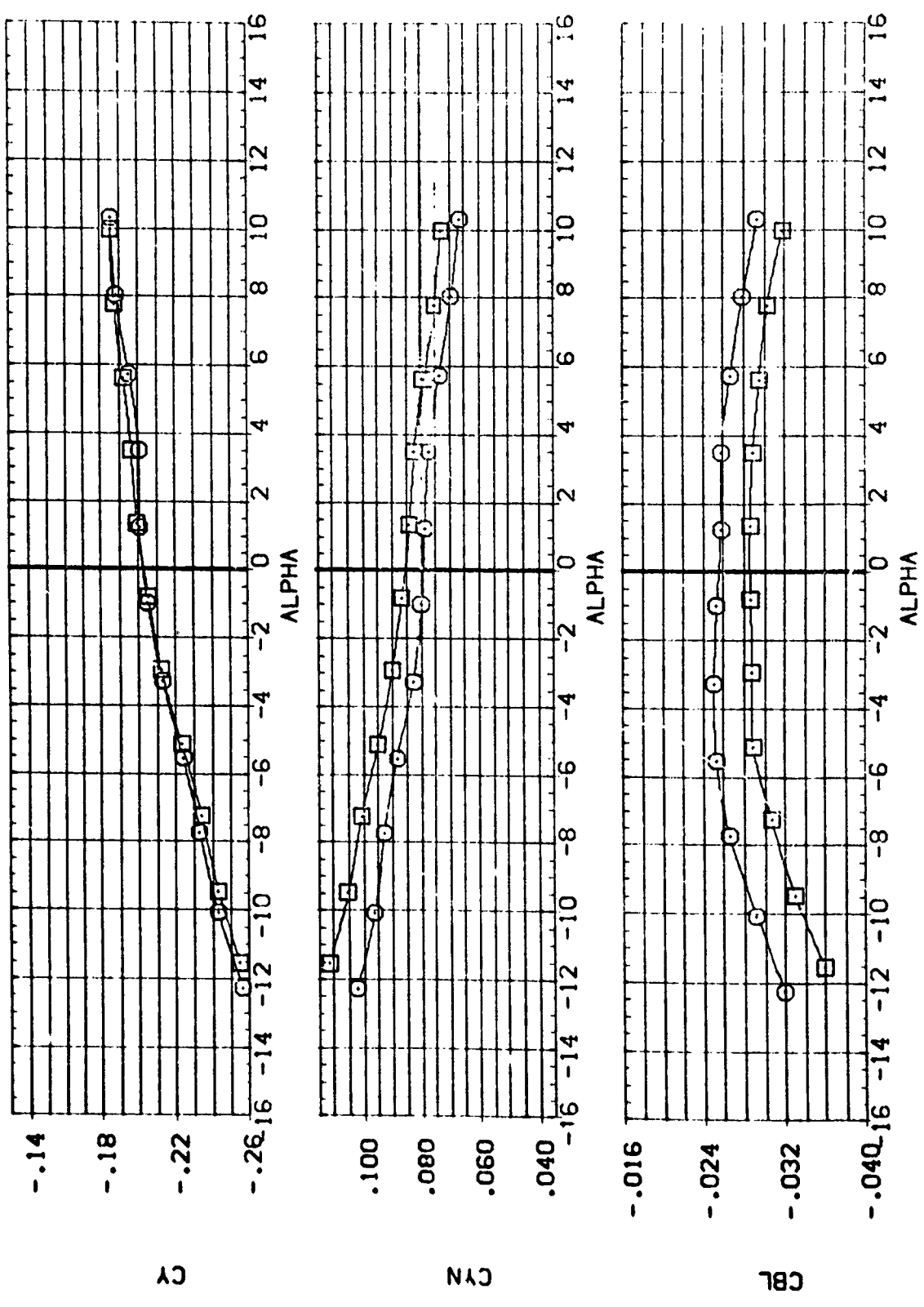
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R05008) LRC UPVT 1056/1073 1A42A/B
 (R06010) LRC UPVT 1056/1073 1A42A/B



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(R06008)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SQ. FT.
(R06010)	LRC UPVT 1056/1073 1A42A/B	5.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86



DATA SET SYMBOL: (R06008) (R06010) (R06011)

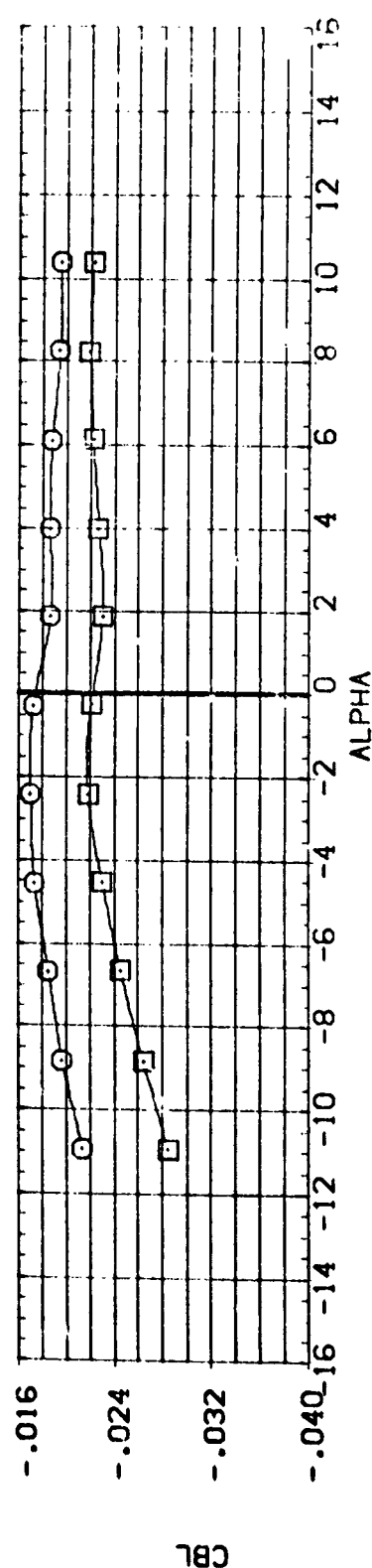
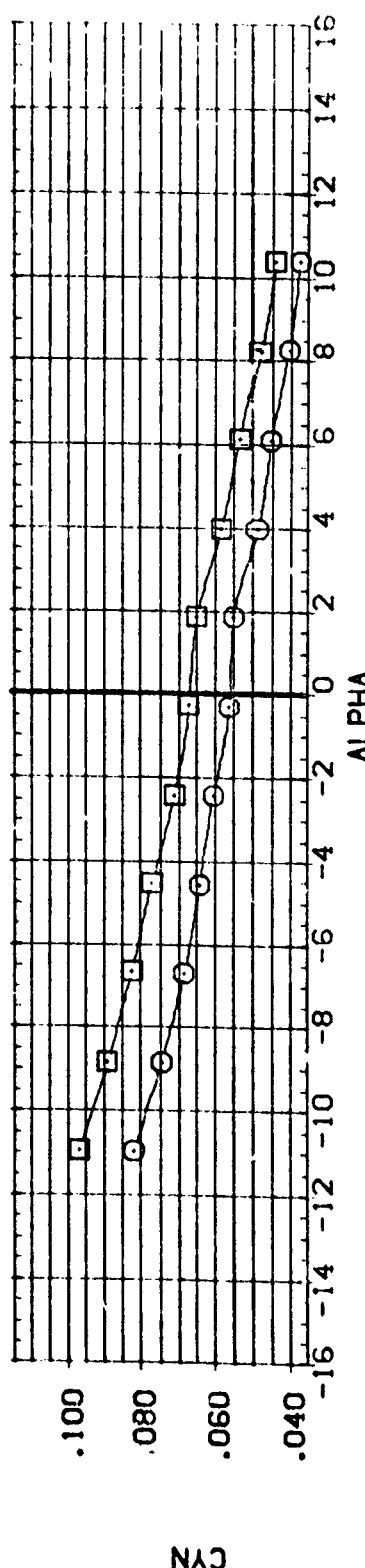
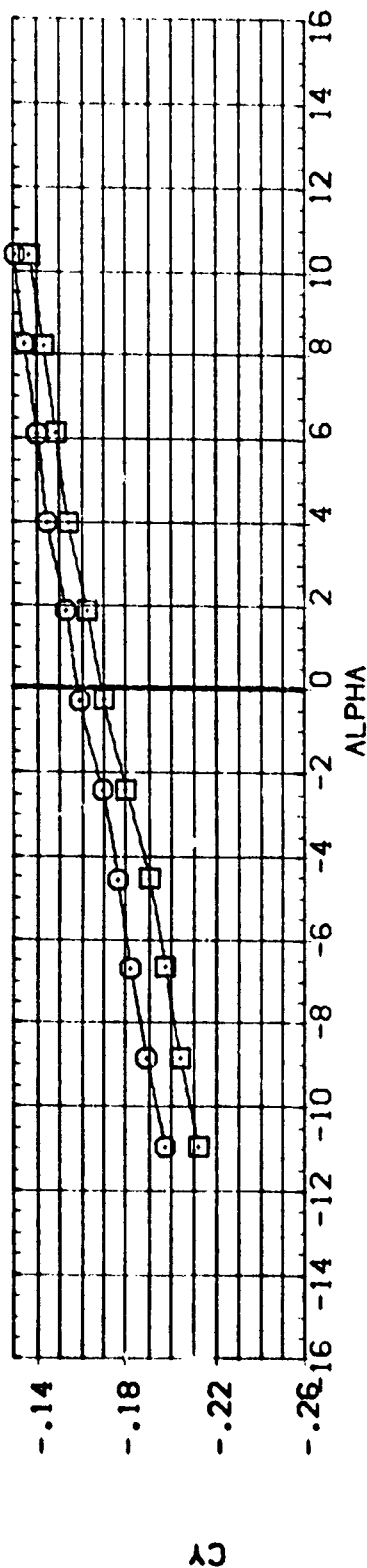
CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42A/B LRC UPVT 1056/1073 1A42A/B

TIPISIP201: TIPISIP201

BETA: 5.000 5.000

RUDDER: .000 -20.000

REFERENCE INFORMATION: SREF 2690.0000 50. FT. LREF 1290.3000 INCHES BREF 1290.3000 INCHES XMRP 975.0000 INCHES YMRP 400.0000 INCHES ZMRP 400.0000 INCHES SCALE .0150

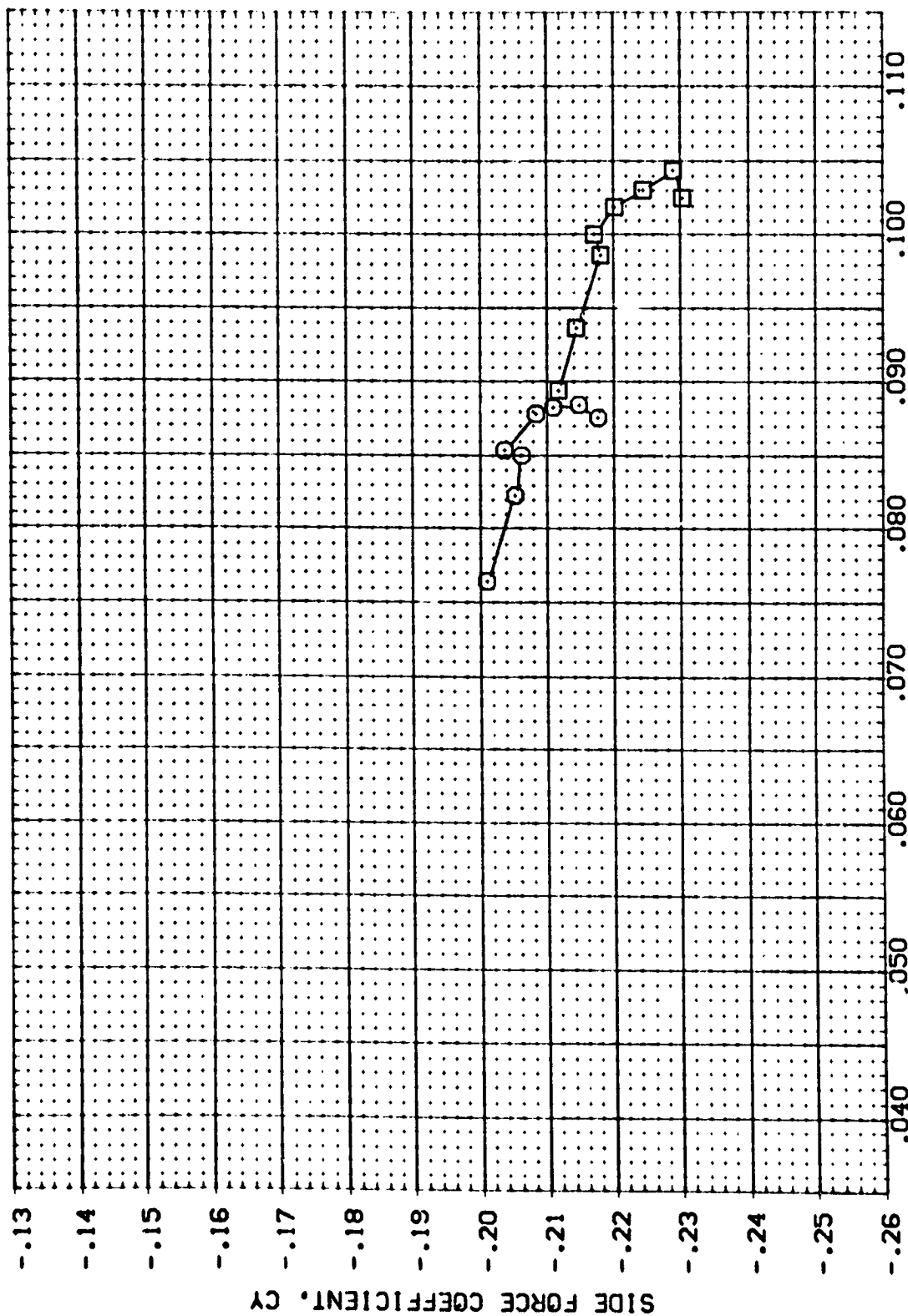


EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 4.63



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		RUDDER		REFERENCE INFORMATION	
RO50081	B	LRC UPVT 1056/1073	1A42A/B	5.000	5.000	-20.000	.000	SREF	2690.0000
RO50101		LRC JVT 1056/1073	1A42A/B					LREF	1290.3000
								BREF	1290.3000
								XMRP	976.0000
								YMRP	.0000
								ZMRP	400.0000
								SCALE	.0100
									INCHES
									SO. FT.



YAWING MOMENT COEFFICIENT, C_{yn} (BODY AXIS)

EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

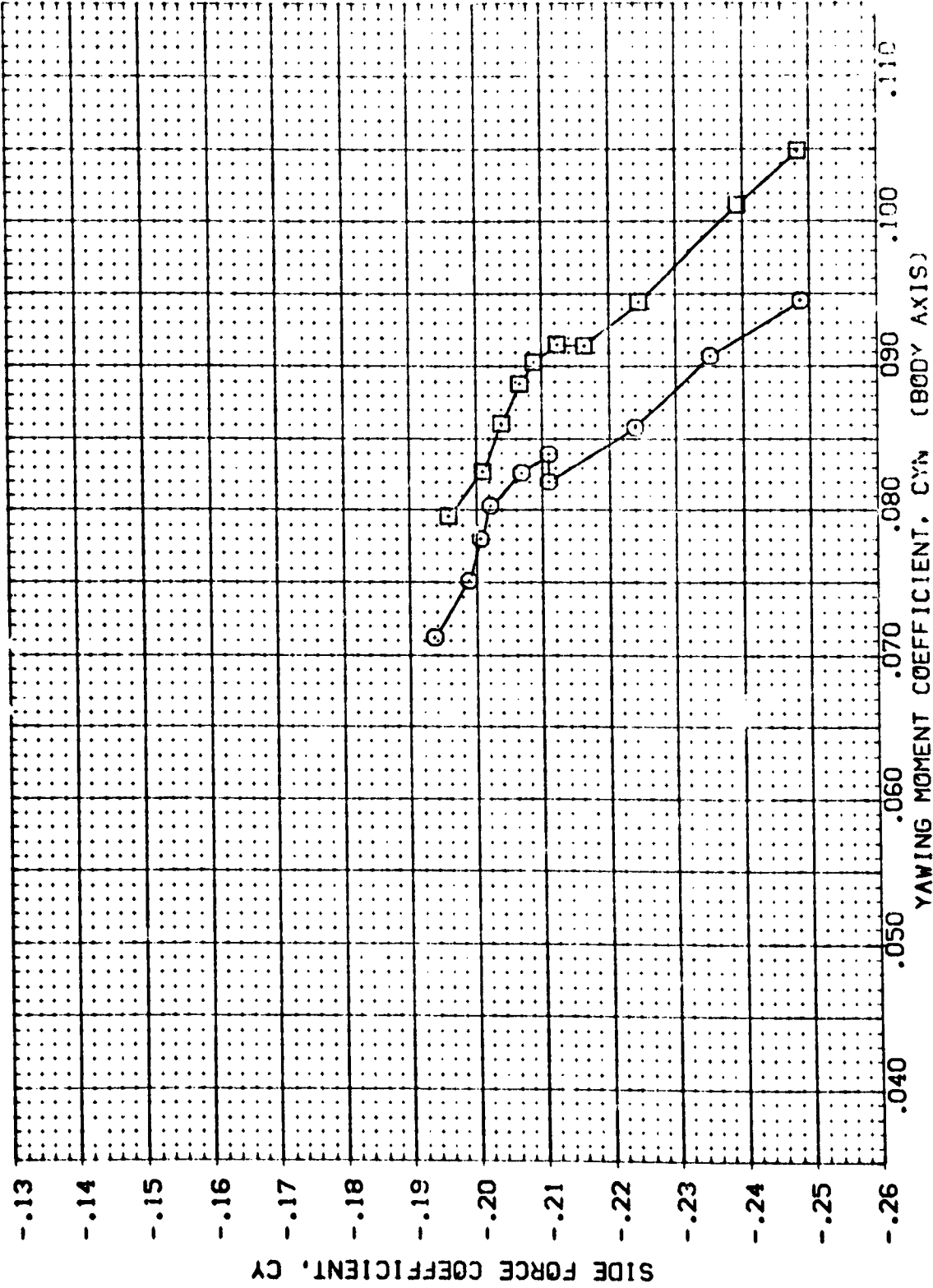
(A)MACH = 2.00

REFERENCE INFORMATION
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 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP 0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0100

BETA RUDDER
 5.000 .000
 5.000 -20.000

TIPISIP201
 TIPISIP201

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 R06006 LRC UPVT 1056/1073 1A42A/B
 R06010 LRC UPVT 1056/1073 1A42A/B



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL: (R05008) (R05010)

CONFIGURATION DESCRIPTION: LRC JUNT 1056/1073 1A42A/B LRC JUNT 1056/1073 1A42A/B

TIP(S)IP20: TIP(S)IP20:

BETA: 5.000 5.000

RUDDER: .000 -20.000

REFERENCE INFORMATION:

SREF: 2690.0000 SQ. FT.

LREF: 1290.3000 INCHES

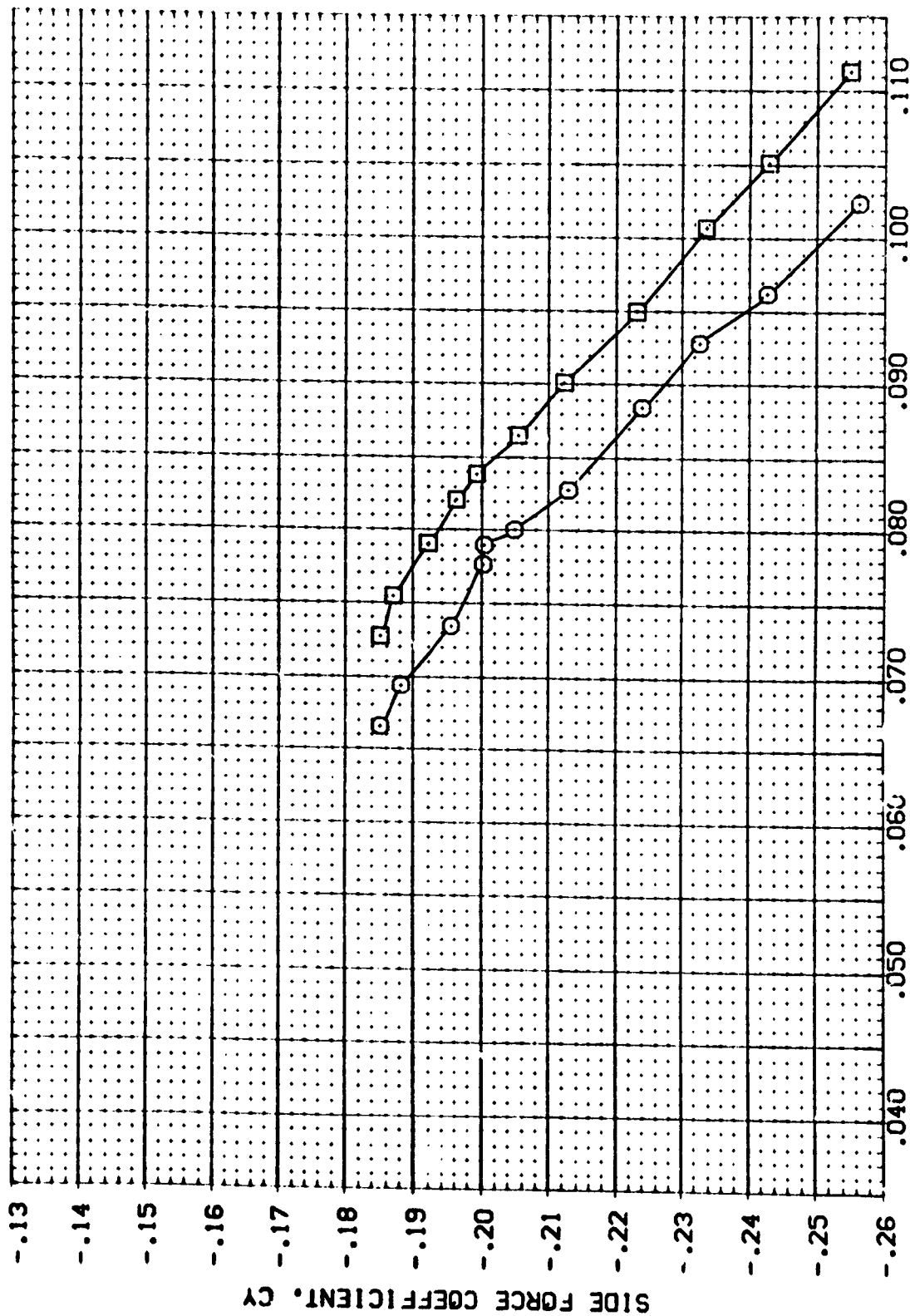
BREF: 1290.3000 INCHES

XMRP: 976.0000 INCHES

YMRP: 400.0000 INCHES

ZMRP: .0110 INCHES

SCALE: .0110



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

REFERENCE INFORMATION

SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	INCHES
YMRP	0.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	0.0100	SCALE

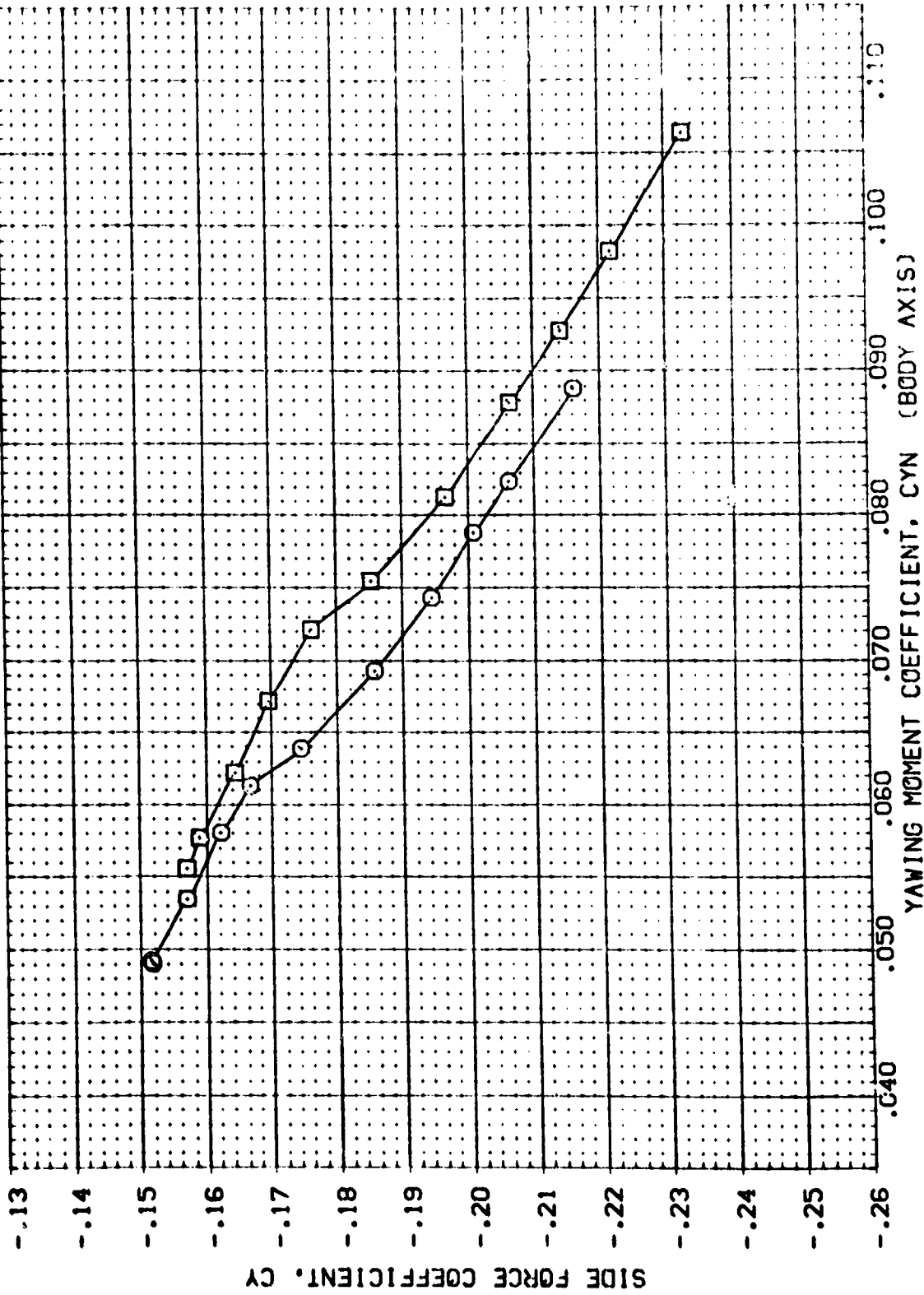
BETA RUDDER

BETA	5.000	0.000
RUDDER	5.000	-20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R06008)	LRC UPVT 1056/1073 1A42AVB
(R06010)	LRC UPVT 1056/1073 1A42AVB

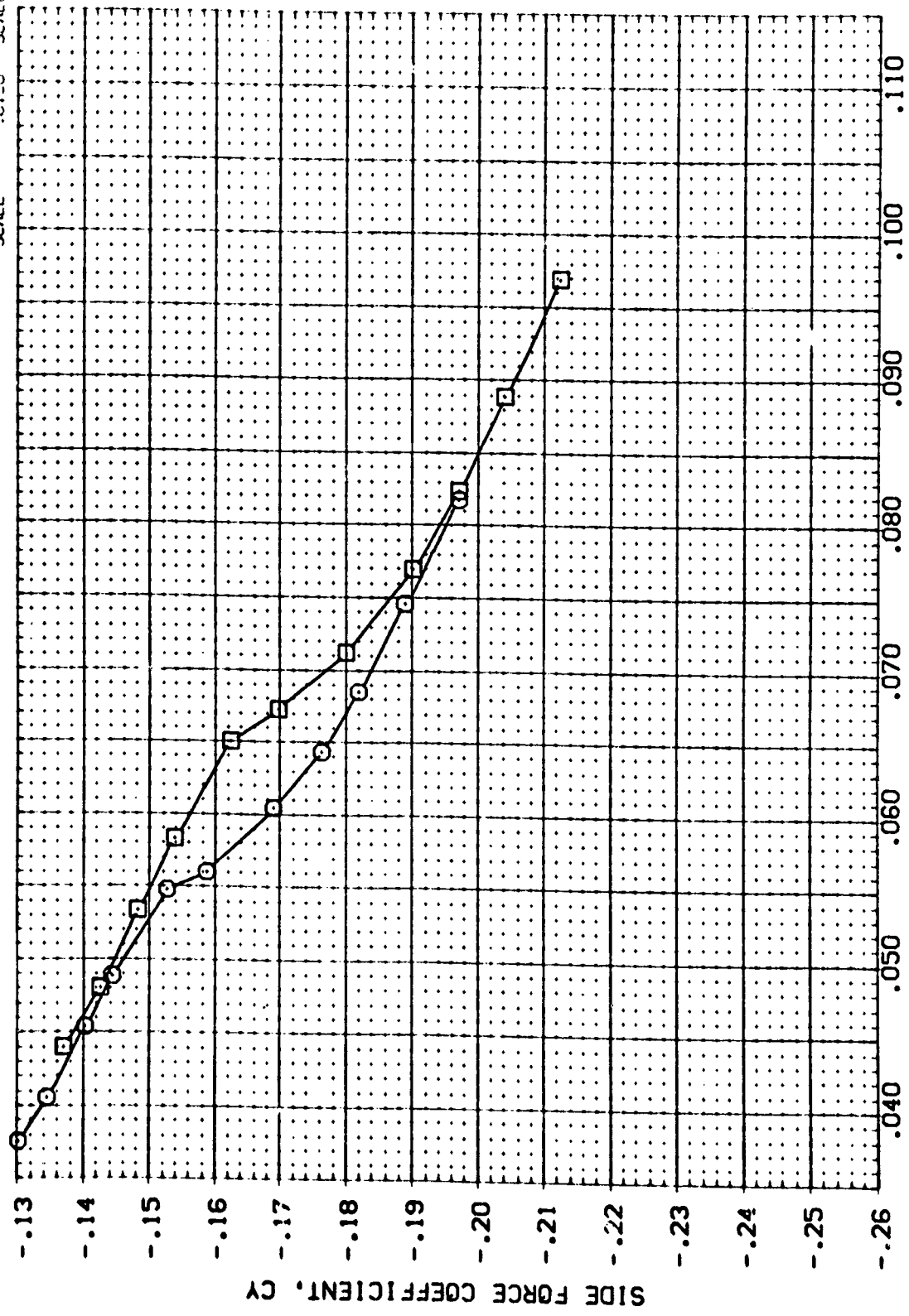
TIPISIP201
TIPISIP201



EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

(0)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	REFERENCE INFORMATION
(R06008)	LRC UPVT 1056/1073 1A42A/B	5.000	.000	SREF 2690.0000 SO.FT
(R06010)	LRC UPVT 1056/1073 1A42A/B	5.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP 400.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0100 SCALE



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

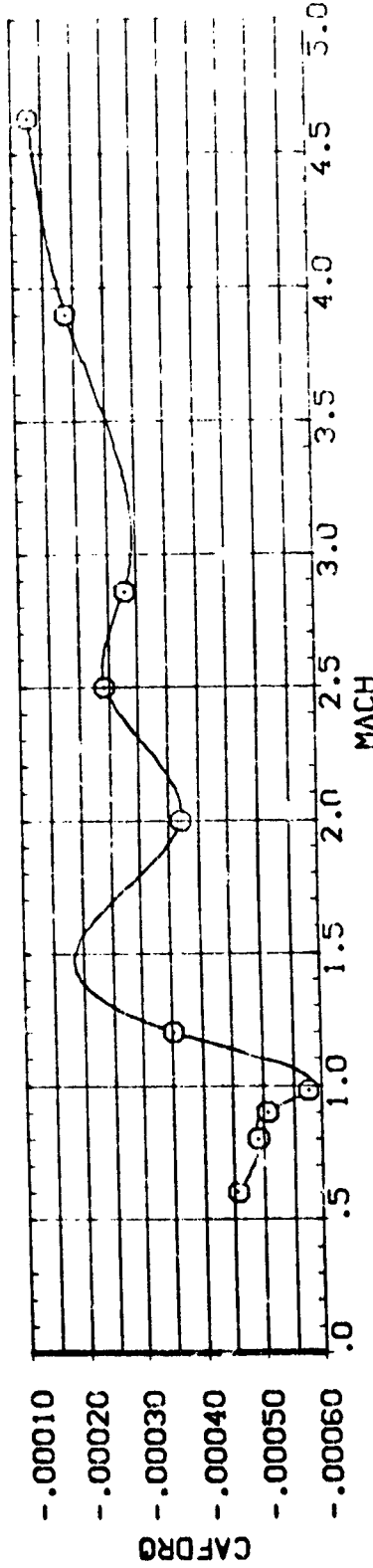
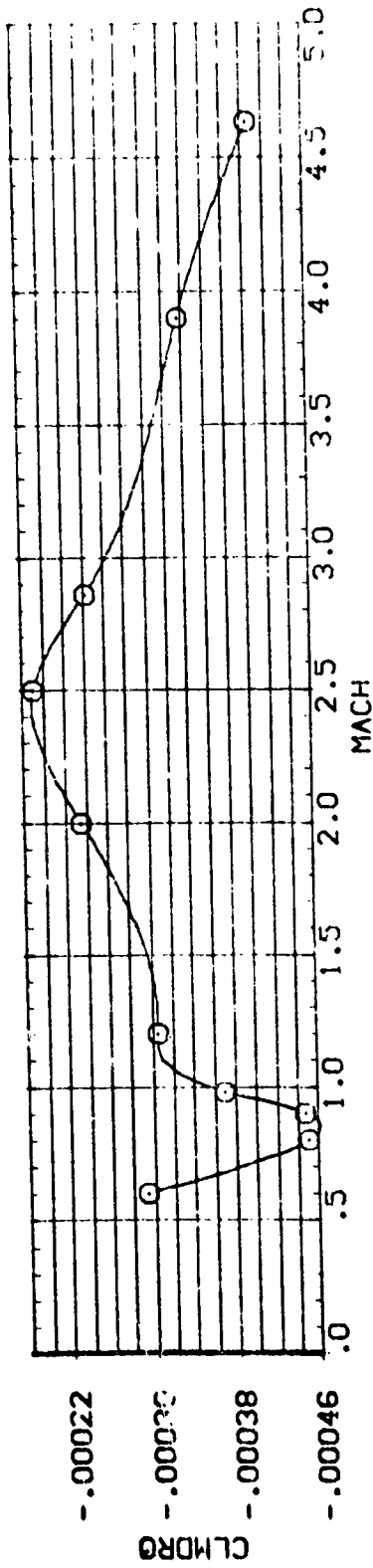
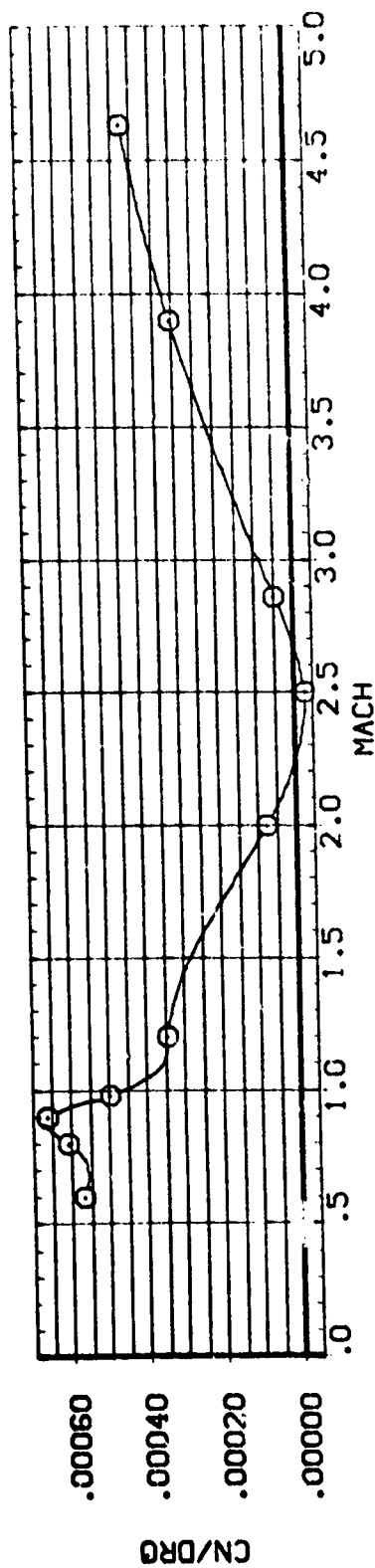
(E)MACH = 4.63

(G06008)

LRC 8 TPT 667 1A41 T1P1S1P201

PARAMETRIC VALUES
OLTRLO -20.000 BETA 5.000

REFERENCE INFORMATION
SREF 2690.0000 SO.FT.
LREF 1230.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP .0000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150 SCALE



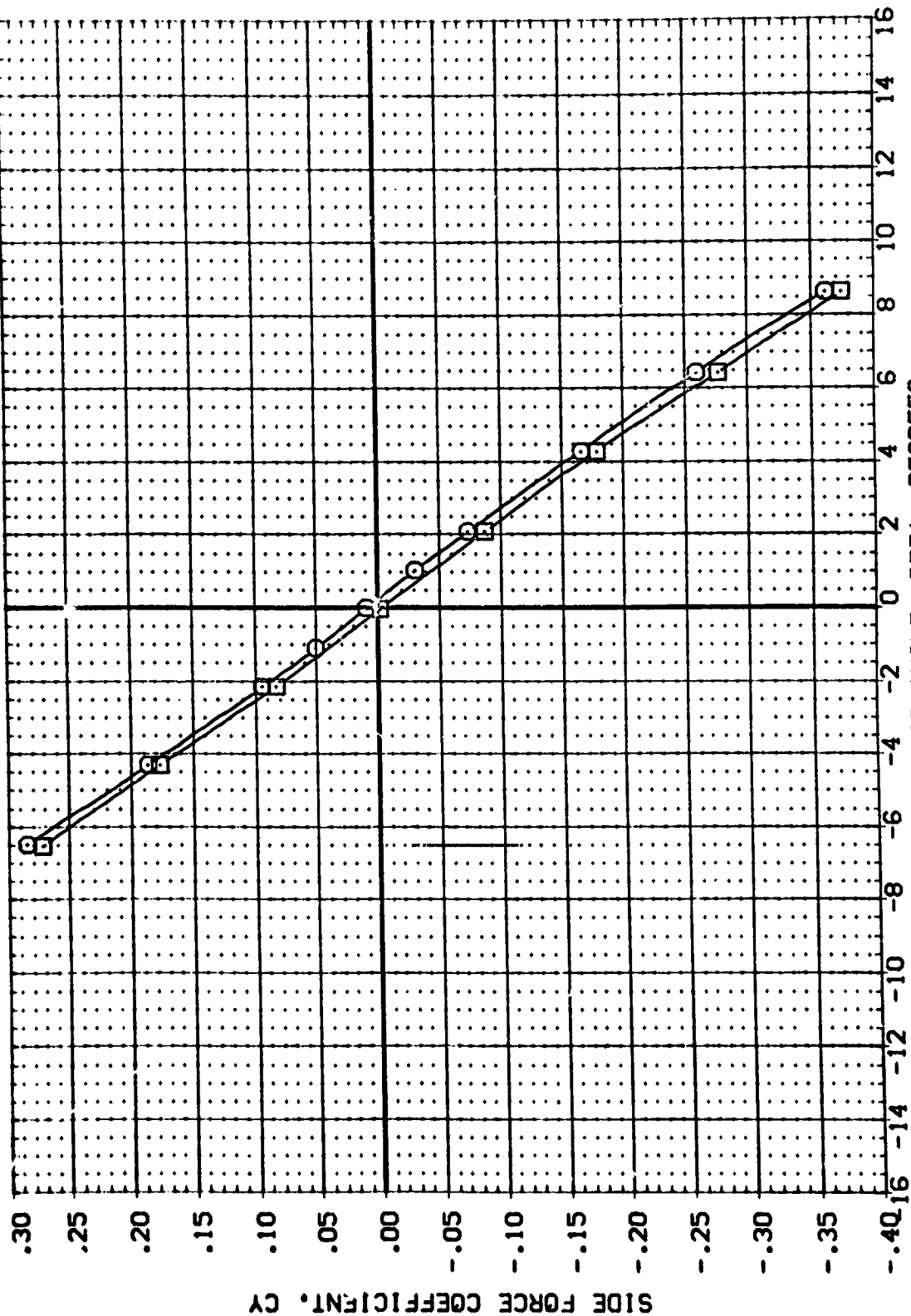
EFFECT OF RUDDER DEFLECTION ON LONGITUDINAL CHARACTERISTICS

REFERENCE INFORMATION:
 SREF 2690.0000 SQ. FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 G/ALF .0150 SCALE

ALPHA RUDER
 .000 .000
 .000 -20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (-06009) LRC PUT 1056/1073 1A42A/B
 (-06011) LRC PUT 1056/1073 1A42A/B

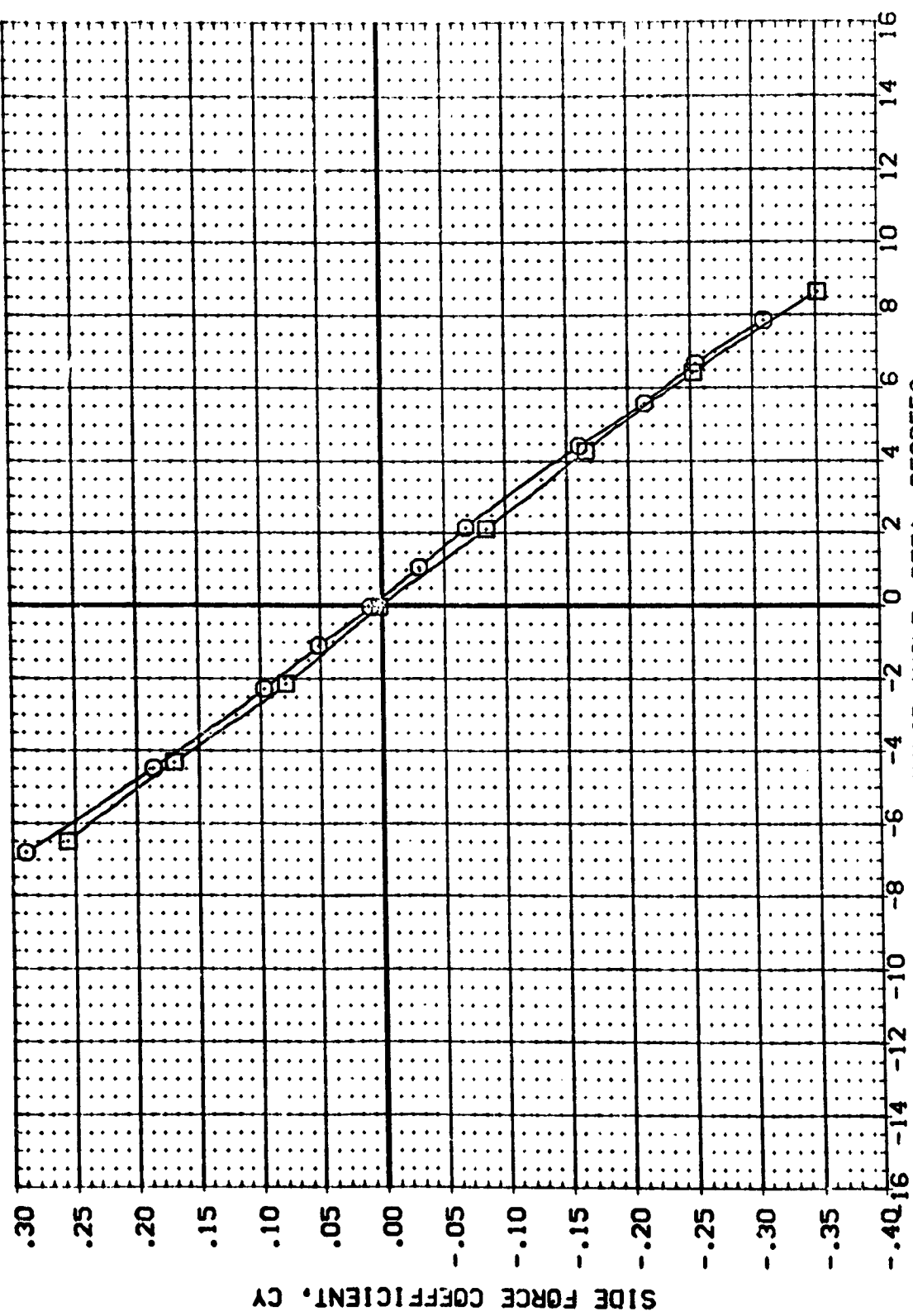
YIPISIP201
 YIPISIP201



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	REFERENCE INFORMATION
(M05009)	LRC UPWT 1056/1073 IA42A/B	.000	.000	SHRF 2690.0000 SQ. FT.
(M06011)	LRC UPWT 1056/1073 IA42A/B	.000	-20.000	LREF 1230.3000 INCHES
				BREF 1290.3000 INCHES
				YMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 INCHES



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

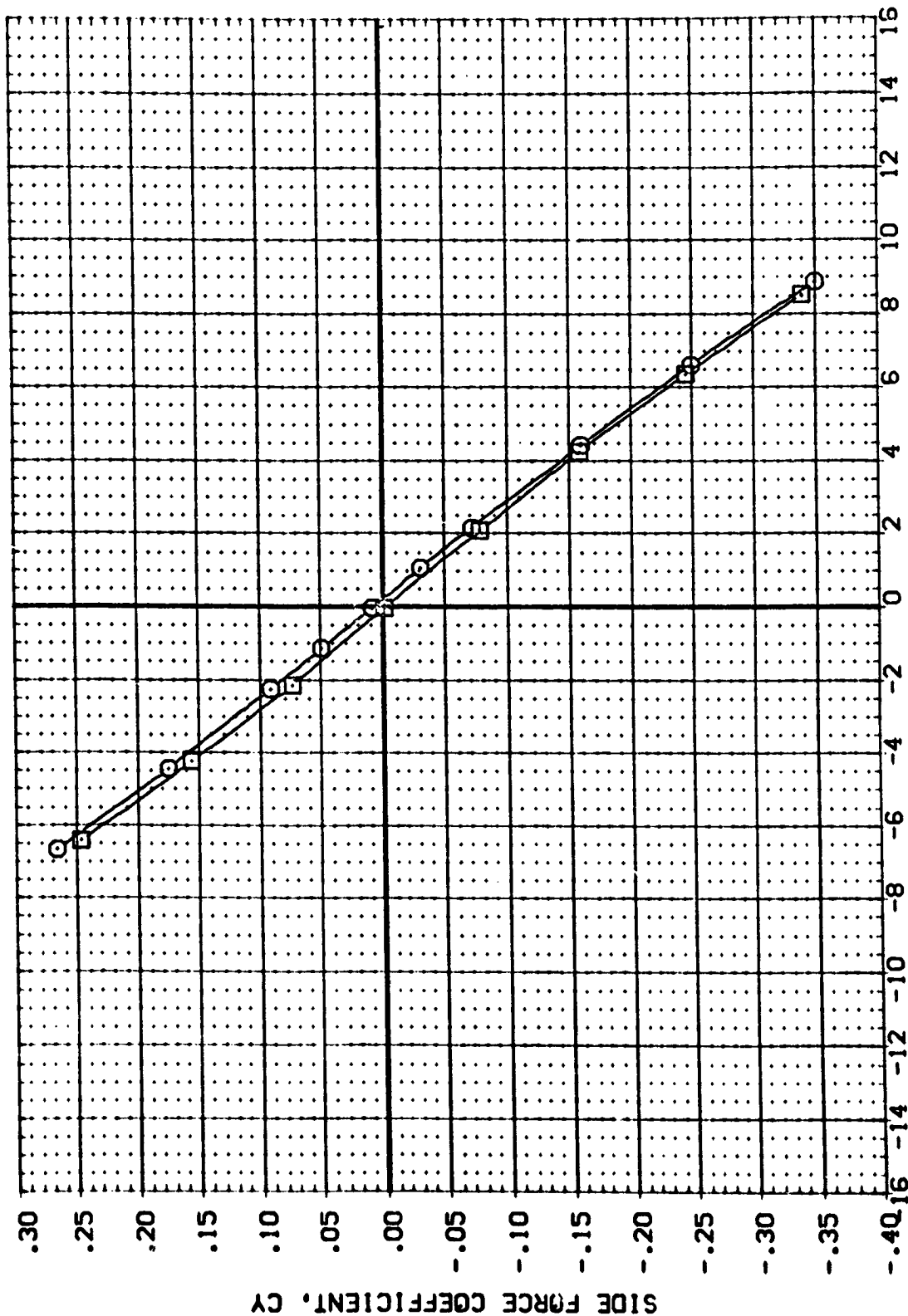
(B)MACH = 2.50

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XPRP 976.0000 INCHES
 YPRP .0000 INCHES
 ZPRP 400.0000 INCHES
 SCALE .01111111

ALPHA RUDDER
 .000 .000
 .000 -20.000

TIPISIP201
 TIPISIP201

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H05009) LRC UPVT 1056/1073 1A42A/B
 (H05011) LRC UPVT 1056/1073 1A42A/B



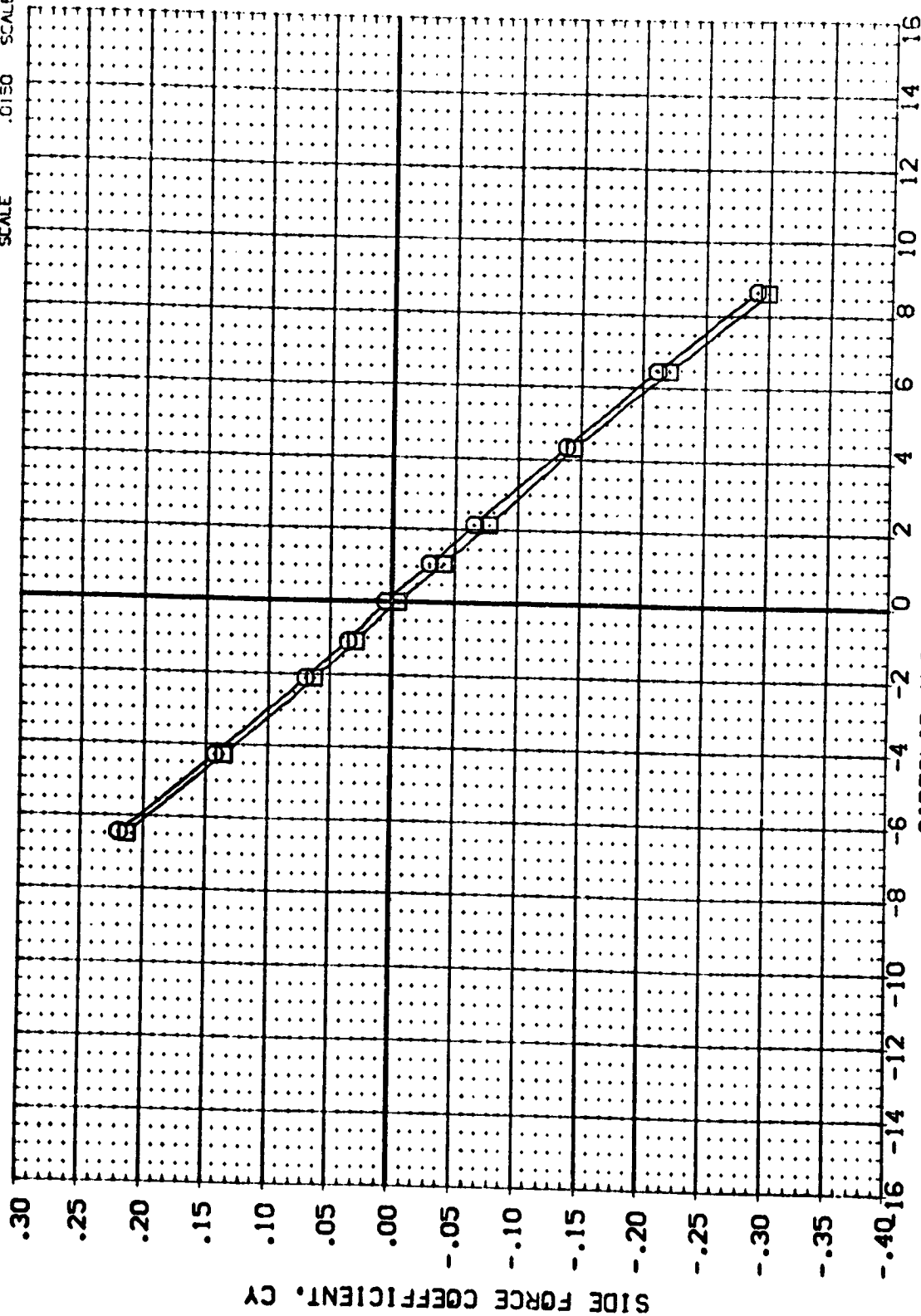
EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(C)MACH = 2.86

DATA SET SYMBOL: H06009
 CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B

ALPHA: .000
 RUDDER: .000
 -20.000

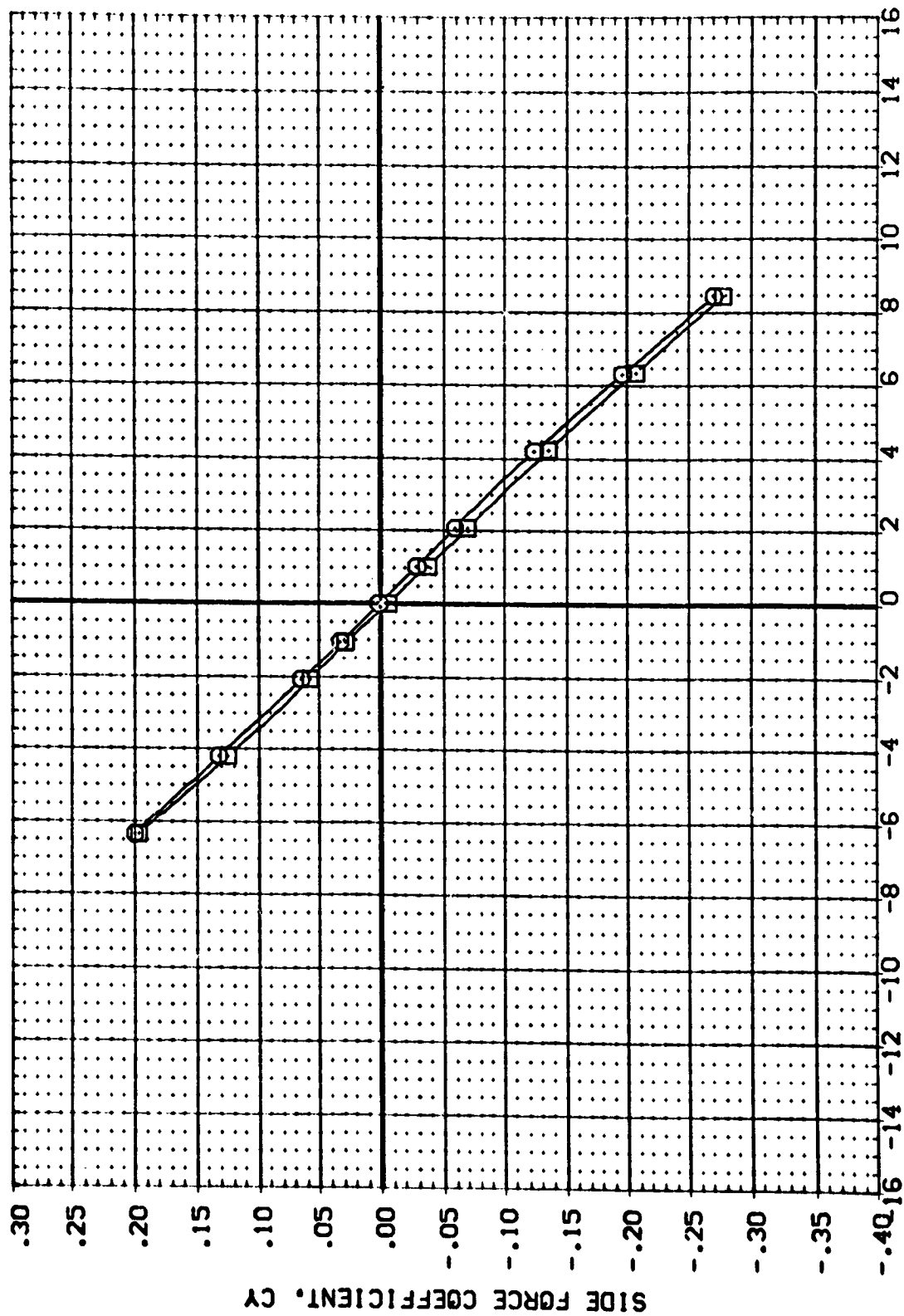
REFERENCE INFORMATION
 SREF: 2680.0000 SO.FT.
 LREF: 1280.3000 INCHES
 BREF: 1280.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: .0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	REFERENCE INFORMATION
(H06C09)	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 30.FT.
(H06011)	LRC UPVT 1056/1073 1A42A/B	.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

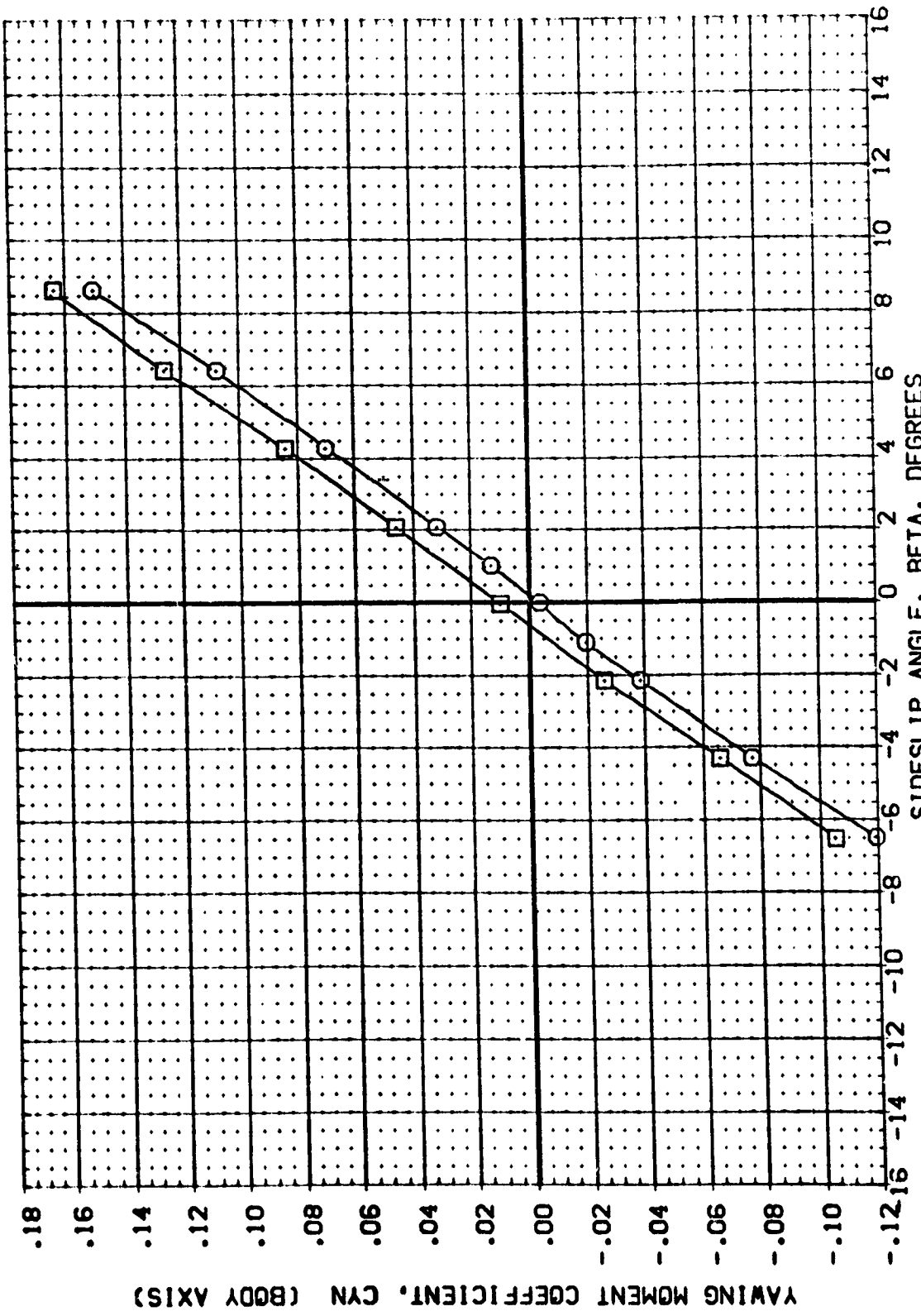
(E)MACH = 4.63

DATA SET SYMBOL: LRC UPVT 1056/1073 1A42A/B
 LRC UPVT 1056/1073 1A42A/B

TIPISIP201
 TIPISIP201

ALPHA: .000
 RUDDER: .000
 -20.000

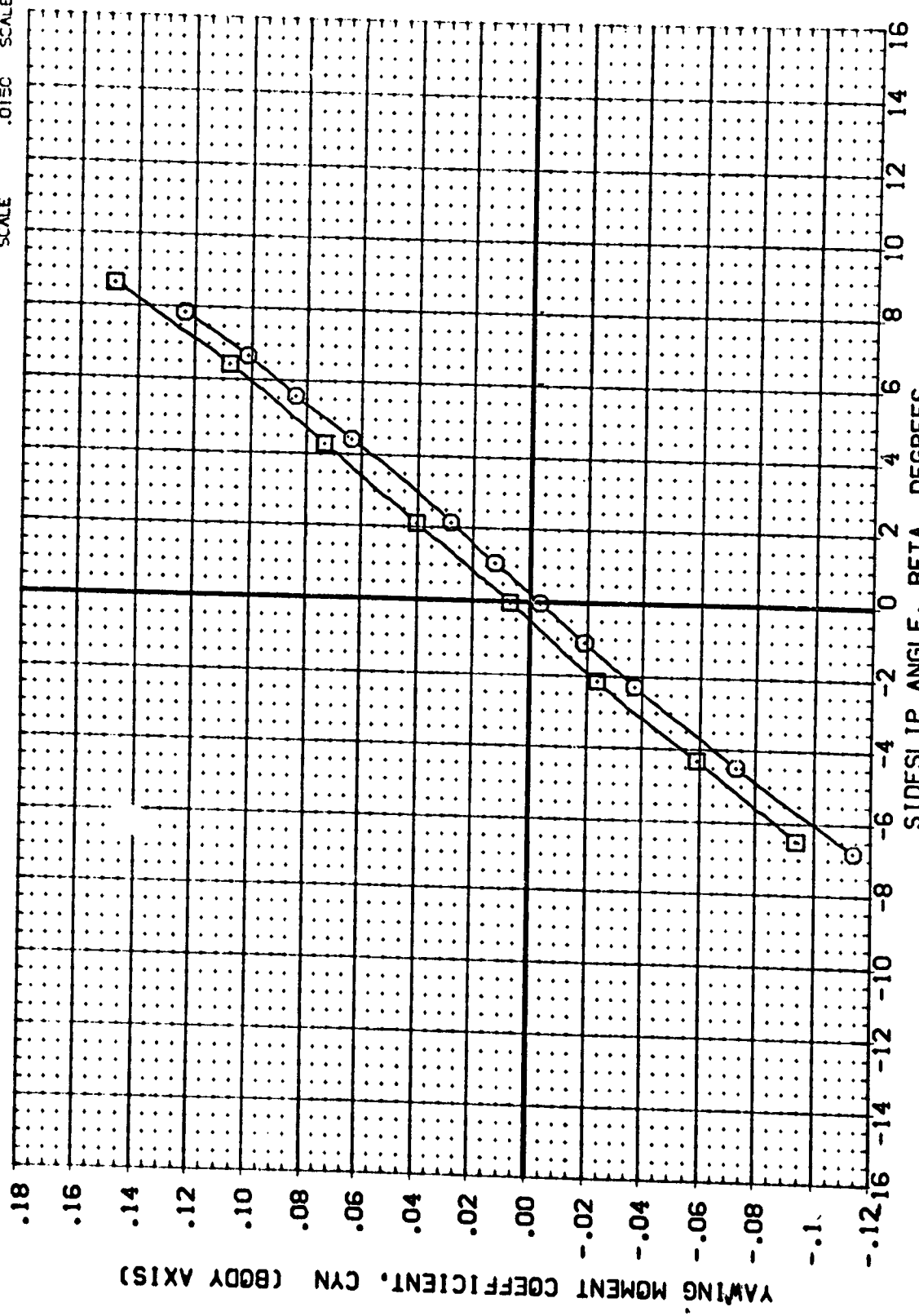
REFERENCE INFORMATION
 SREF: 2690.0000 SQ.FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 YMRP: 976.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	REFERENCE INFORMATION
(H05009)	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 SC.FT.
(H05011)	LRC UPVT 1056/1073 1A42A/B	.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3700 INCHES
				YMRP 976.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

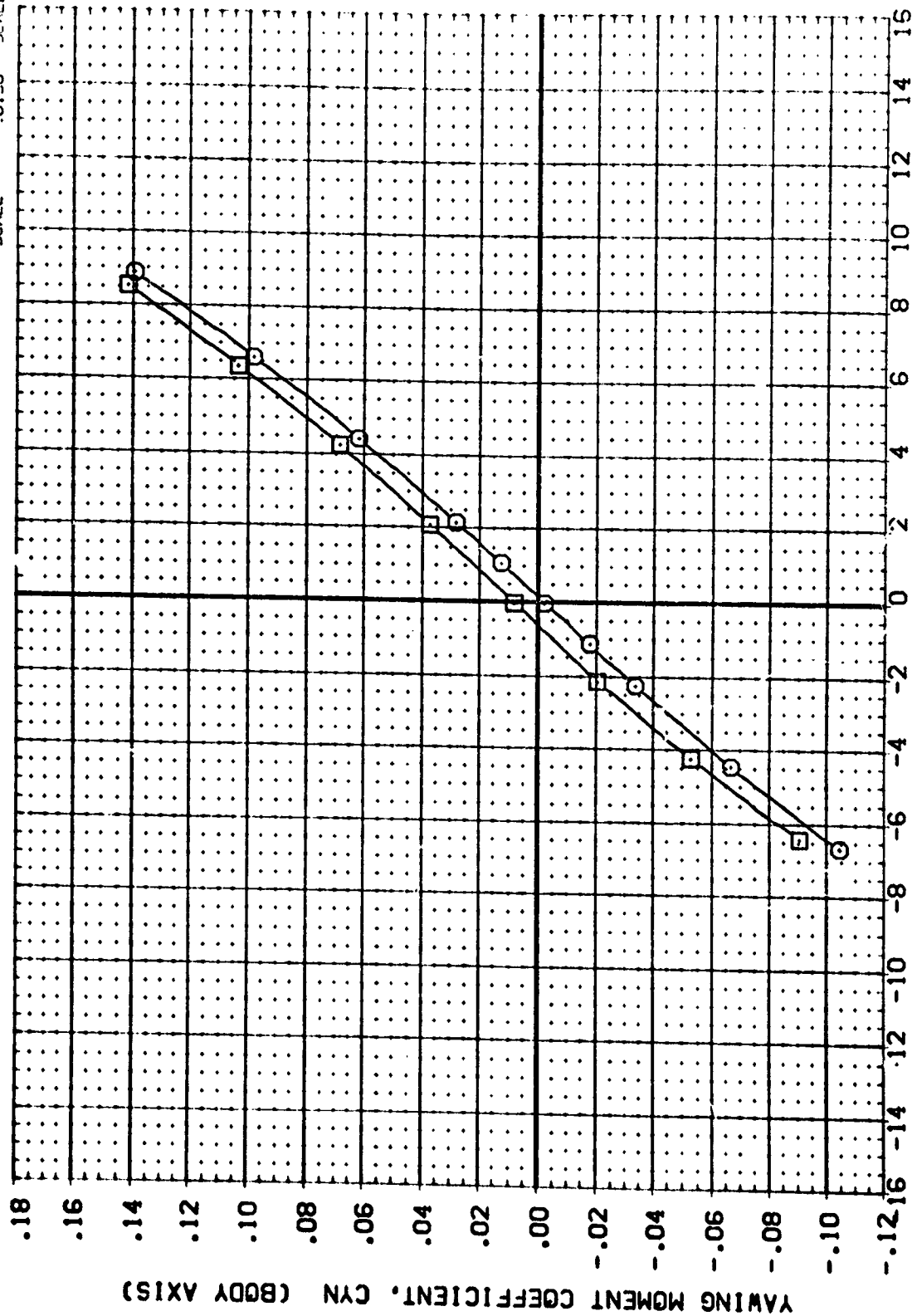
(B)MACH = 2.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (H06009) LRC UPVT 1056/1073 1A42A/B
 (H06011) LRC UPVT 1056/1073 1A42A/B

TIPISIP201
 TIPISIP201

ALPHA RUDDER
 .000 .000
 .000 -20.000

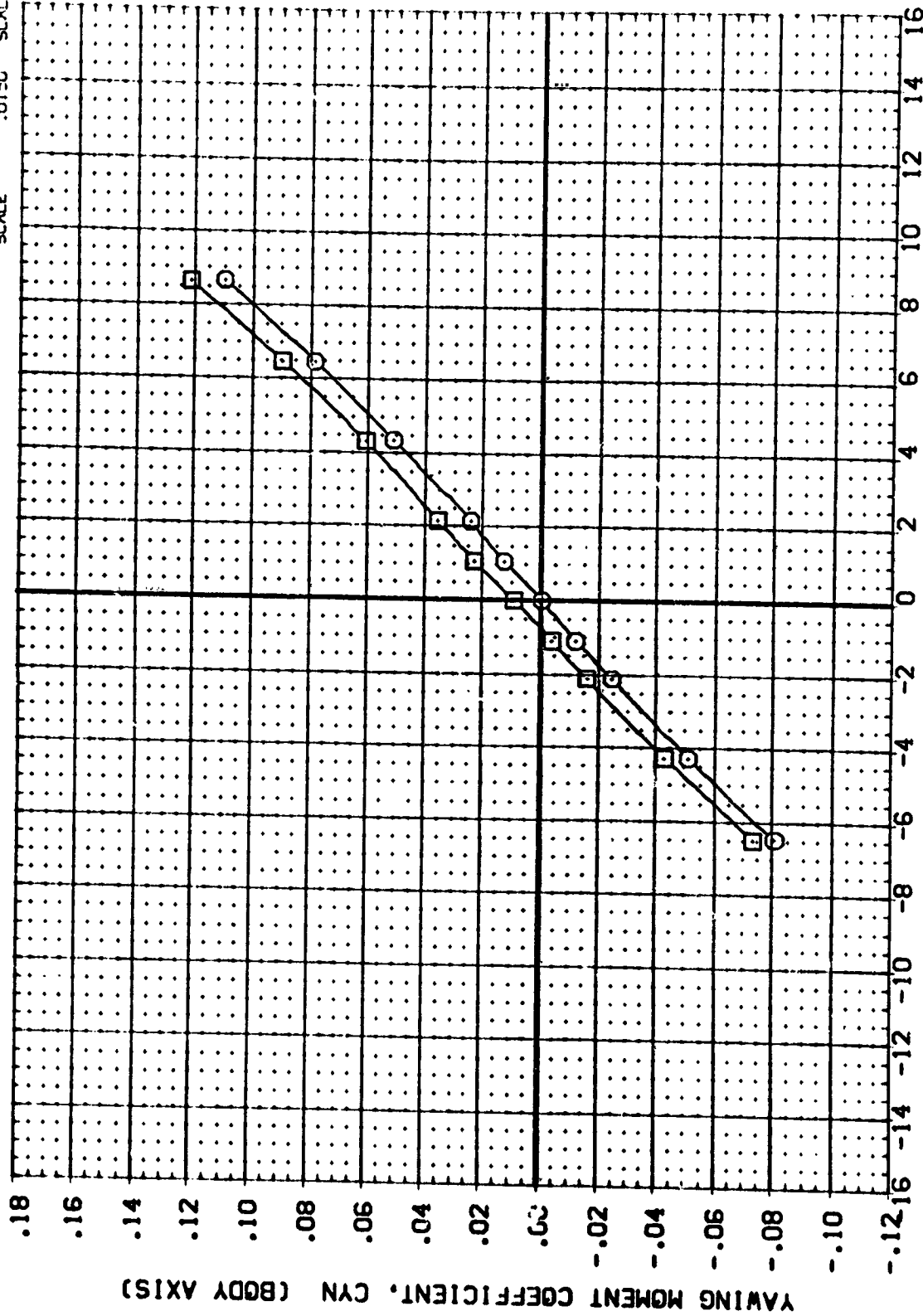
REFERENCE INFORMATION
 SREF 2690.0000 SC.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150



SIDESLIP ANGLE, BETA, DEGREES
 EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(C)MACH = 2.86

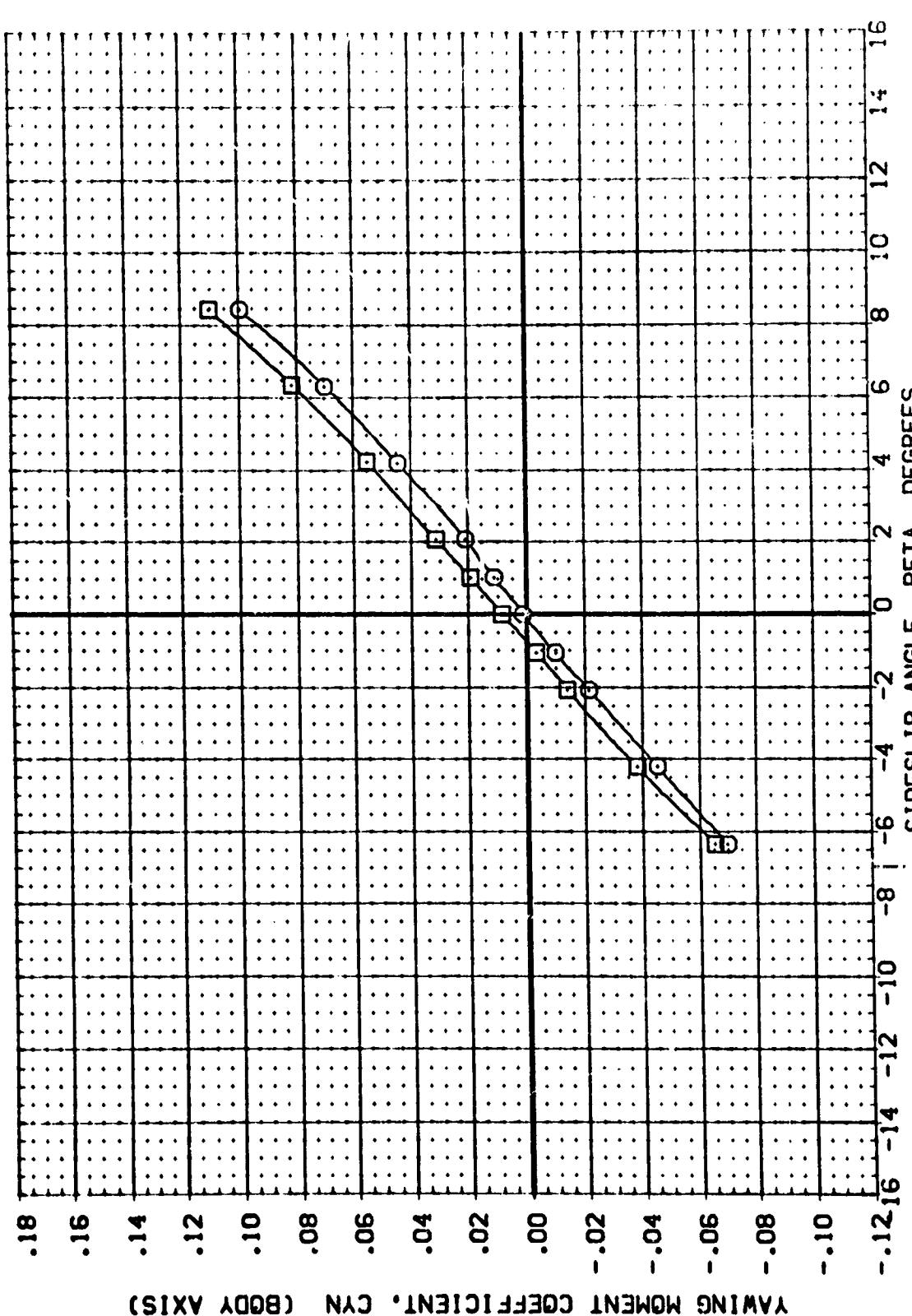
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	REFERENCE INFORMATION
(H05009)	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 SQ. FT.
(H05011)	LRC UPVT 1056/1073 1A42A/B	.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP .0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150 SCALE



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(0)MACH = 3.90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		TIPISIP201		ALPHA		RUDDER		REFERENCE INFORMATION	
1065009		LRC UPVT 1056/1073 1A42A/B		TIPISIP201		.000		.000		SREF 2650.0000 SO. FT.	
1065011		LRC UPVT 1056/1073 1A42A/B		TIPISIP201		.000		-20.000		LREF 1250.3000 INCHES	
										BREF 1250.3000 INCHES	
										XMRP 976.0000 INCHES	
										YMRP 400.0000 INCHES	
										ZMRP 400.0000 INCHES	
										SCALE .0150	



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(E)MACH = 4.63

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(H06009)	LRC JPT 1056/1073	IA42A/B
(H06011)	LRC JPT 1056/1073	IA42A/B

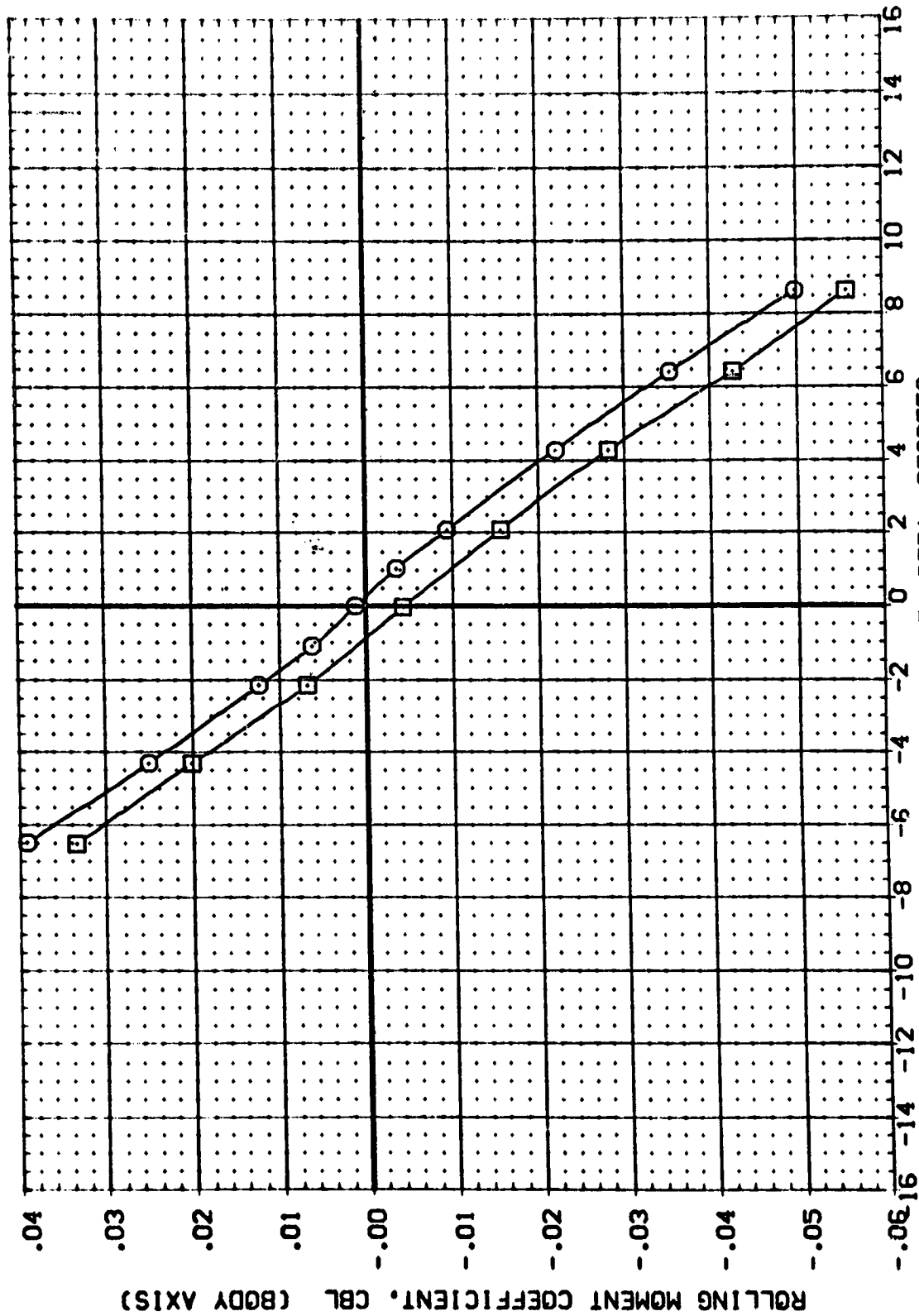
ALPHA RUDDER

.000	.000
.000	-20.000

TIPISIP201
TIPISIP201

REFERENCE INFORMATION

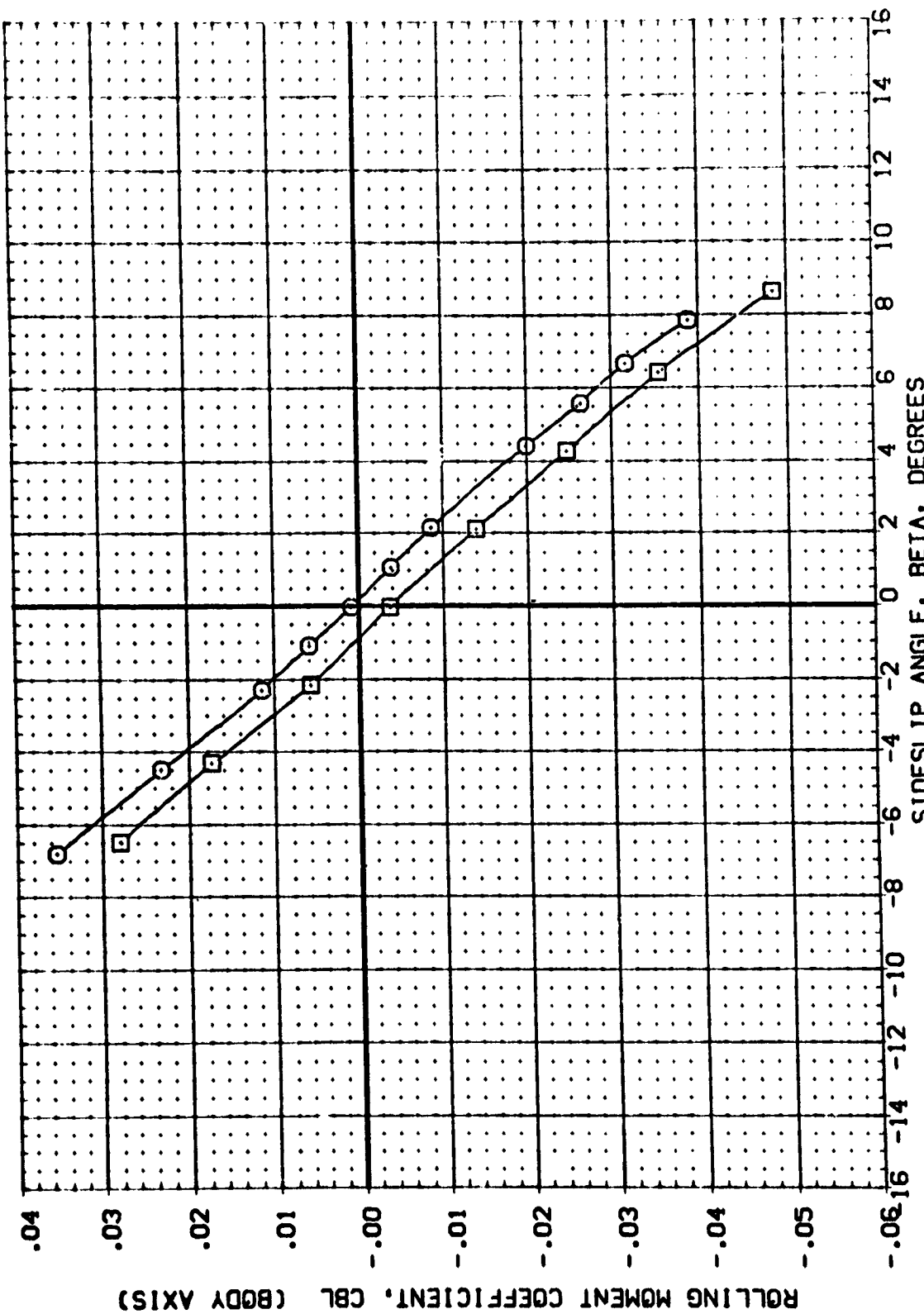
SREF	2650.0000	SO. FT.
LREF	1280.3000	INCHES
BREF	1280.3000	INCHES
XMRP	976.0000	INCHES
YMRP	.0000	INCHES
ZMRP	400.0000	INCHES
SCALE	.0150	INCHES



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 2.00

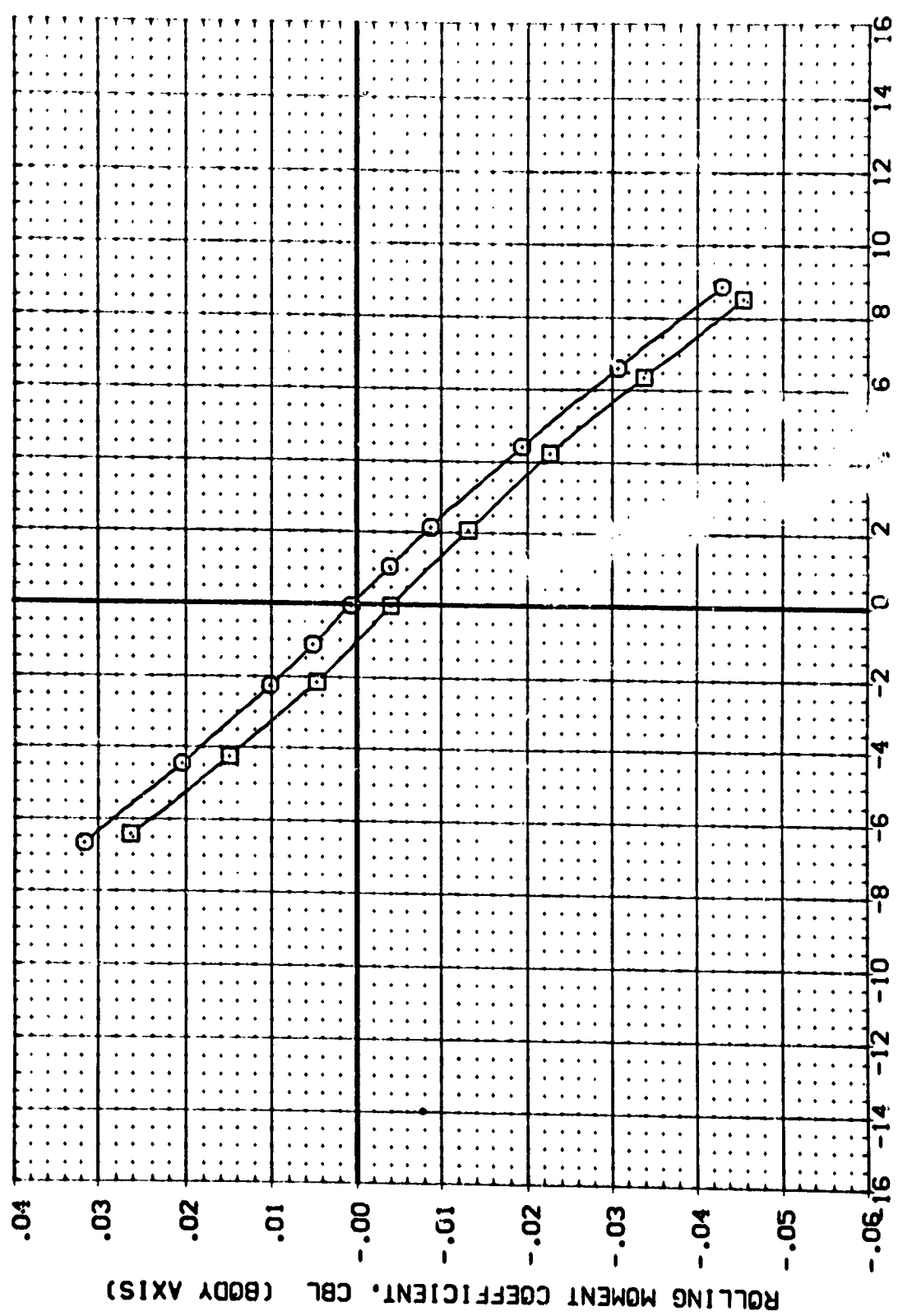
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ALPHA		RUDDER		REFERENCE INFORMATION	
(H05009)	□	LRC UPVT 1056/1073	1A42A/B	.000	.000	.000	.000	SREF	2690.0000
(H06011)	□	LRC UPVT 1056/1073	1A42A/B	.000	.000	.000	.000	LREF	1290.3000
								BREF	1290.3000
								XMRP	975.0000
								YMRP	400.0000
								ZMRP	400.0000
								SCALE	.0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	REFERENCE INFORMATION
14050091	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 SD.FT.
14060111	LRC UPVT 1056/1073 1A42A/B	.000	-20.000	LREF 1290.3000 IN.HES
				BREF 1290.3000 IN.HES
				XMRP 976.0000 IN.HES
				YMRP .0000 IN.HES
				ZMRP 400.0000 IN.HES
				SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

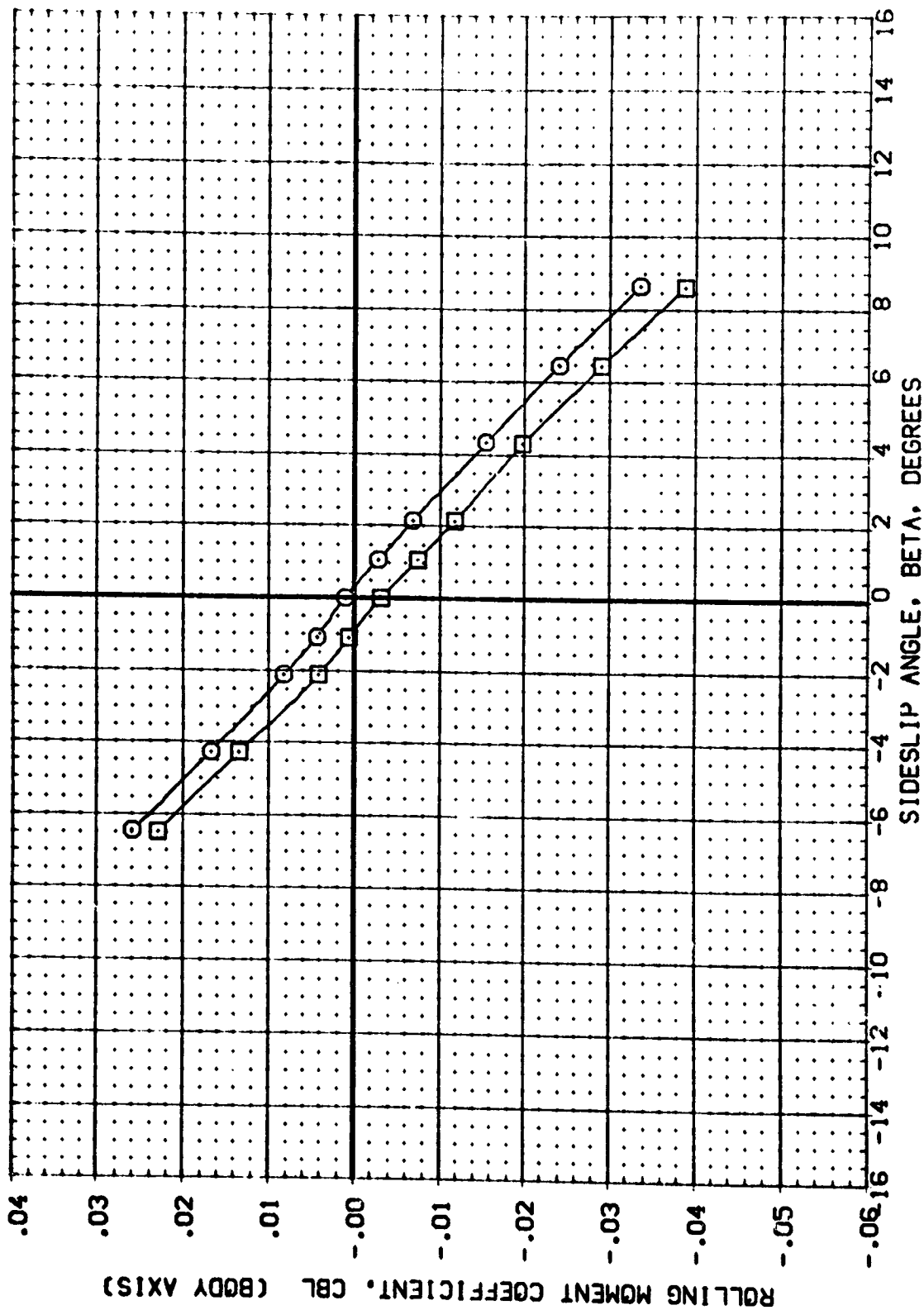
(C)MACH = 2.86

DATA SET SYMBOL: (H05009) (H05011) LRC UPVT 1056/1073 1A42A/B LRC UPVT 1056/1073 1A42A/B

CONFIGURATION DESCRIPTION: TIP1SIP201 TIP1SIP201

ALPHA: .000 .000 RUDER: .000 -20.000

REFERENCE INFORMATION: SREF 2690.0000 SO. FT. LREF 1290.3000 INCHES BREF 1290.3000 INCHES XMRP 976.0000 INCHES YMRP .0000 INCHES ZMRP 400.0000 INCHES SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(O)MACH = 3.90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(H06009) 1 1056/1073 1A42A/B

(H06011) 1 1056/1073 1A42A/B

REFERENCE INFORMATION

SREF 2690.0000 50.FT.

LREF 1290.3000 INCHES

BREF 1290.3000 INCHES

XMRP 976.0000 INCHES

YMRP 400.0000 INCHES

ZMRP 400.0000 INCHES

SCALE .0150

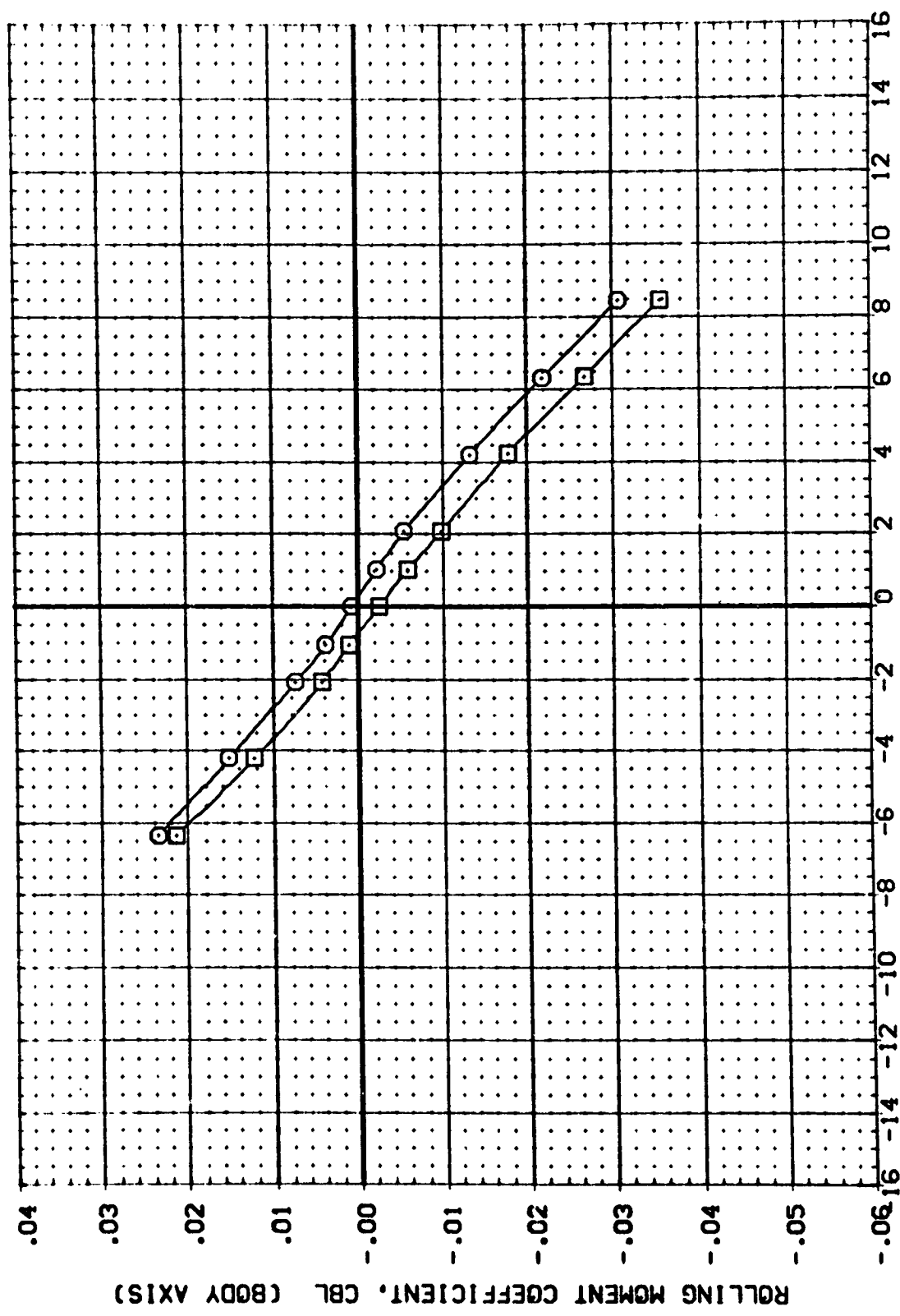
ALPHA RUDDER

.000 .000

.000 -20.000

TIPISIP201

TIPISIP201



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

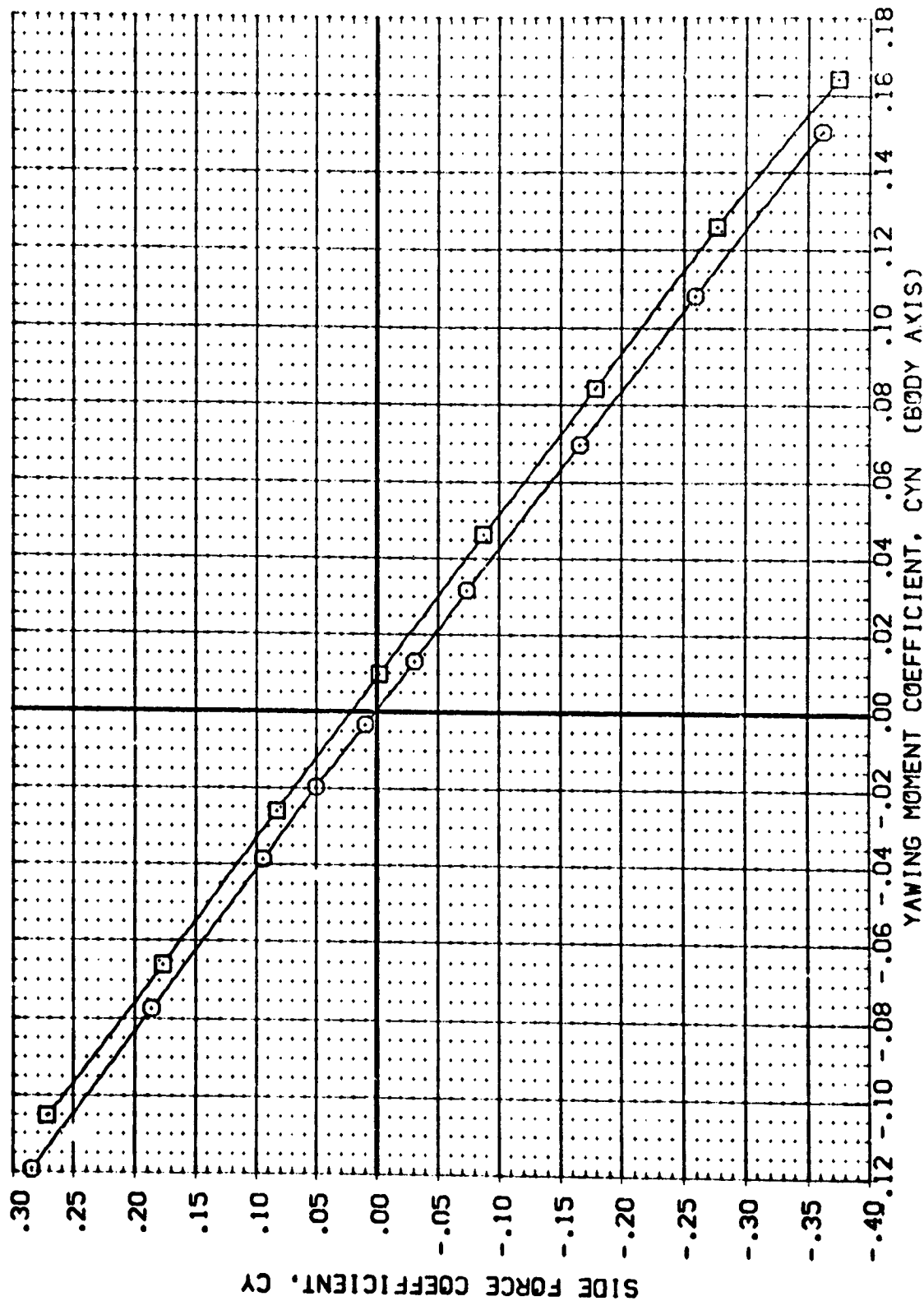
(E)MACH = 4.63

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (M05009) LRC JPVT 1056/1073 1A42A/B
 (M05011) LRC JPVT 1056/1073 1A42A/B

TIPISIP201
 TIPISIP201

ALPHA RUDDER
 .000 .000
 .000 -20.000

REFERENCE INFORMATION
 SREF 2690.0000 SC.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 INCHES
 YMRP .0000 INCHES
 ZMRP 400.0000 INCHES
 SCALE .0150 INCHES



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(A)MACH = 2.00

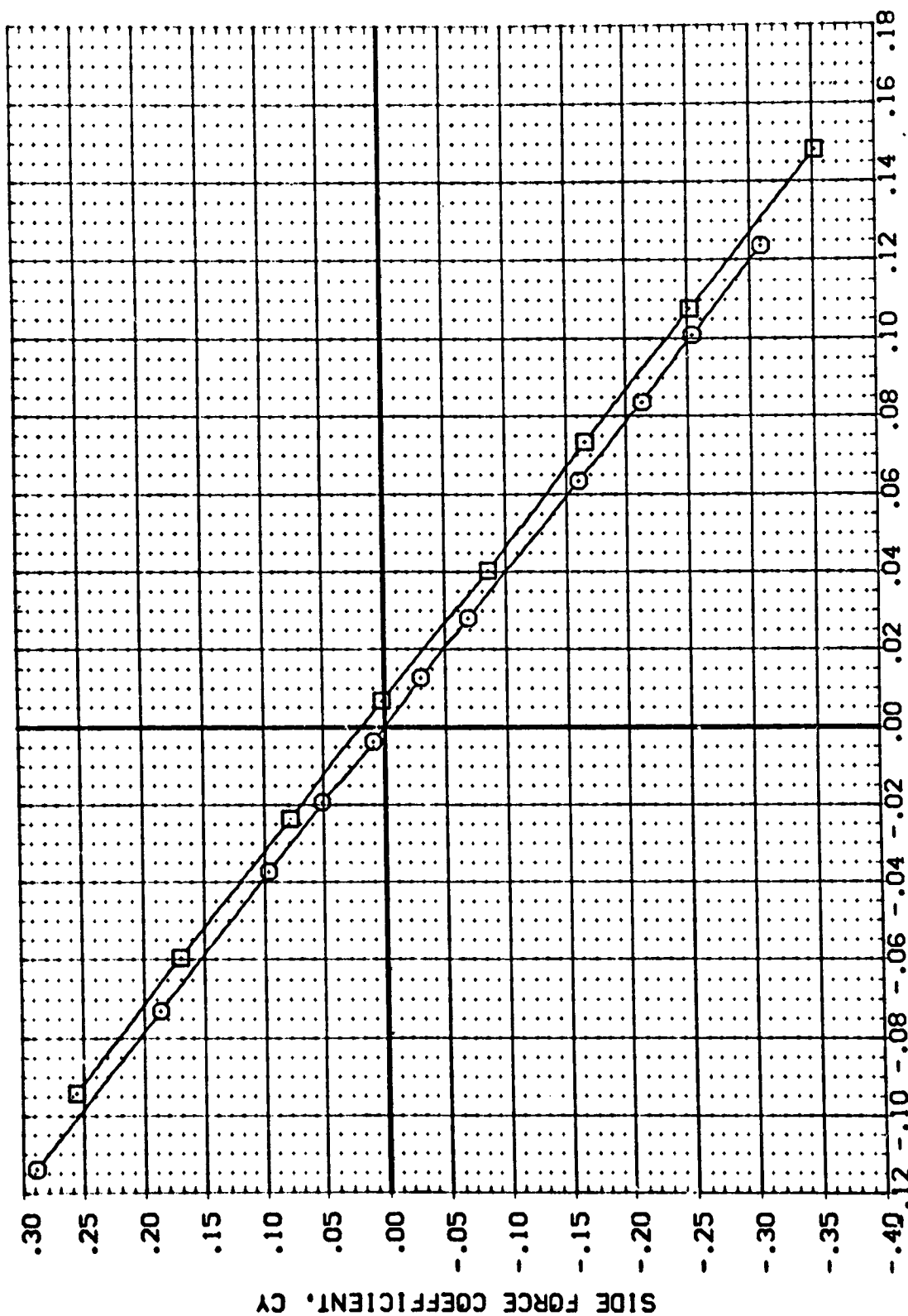
PAGE 226

DATA SET SYMBOL: HQ60091
 CONFIGURATION DESCRIPTION: LRC UPVT 1056/1073 1A42A/B
 LRC LPVT 1056/1073 1A42A/B

ALPHA: .000
 RUDDER: .000 -20.000

TIP(S)P201
 TIP(S)P201

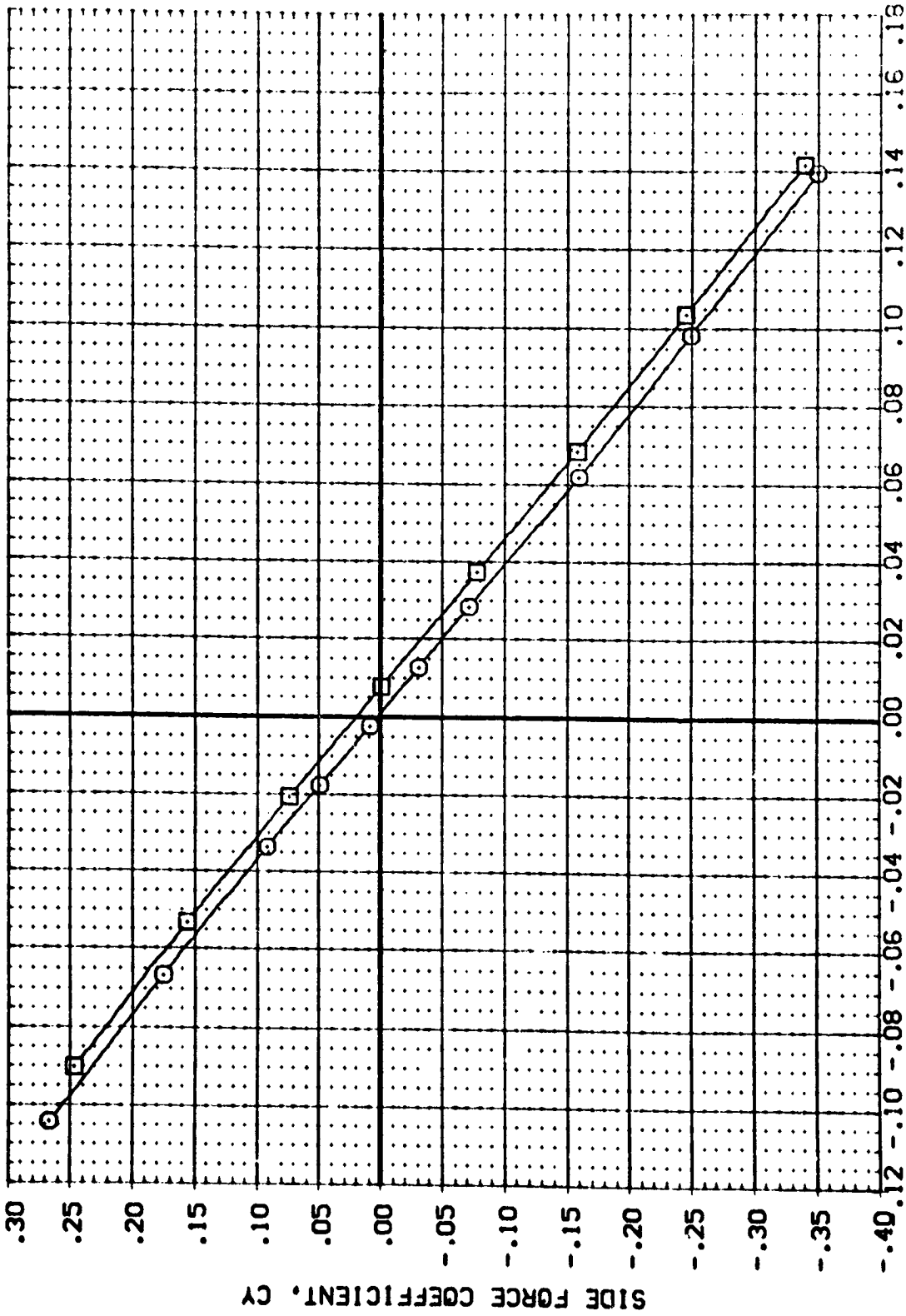
REFERENCE INFORMATION:
 SREF: 2690.0000 SO. FT.
 LREF: 1290.3000 INCHES
 BREF: 1290.3000 INCHES
 XMRP: 976.0000 INCHES
 YMRP: 400.0000 INCHES
 ZMRP: 400.0000 INCHES
 SCALE: .0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	REFERENCE INFORMATION
(H05009)	LRC LPM 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 SQ. FT.
(H05011)	LRC LPM 1056/1073 1A42A/B	.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				VMRP .0000 INCHES
				ZMRP .0000 INCHES
				SCALE 400.0000 INCHES

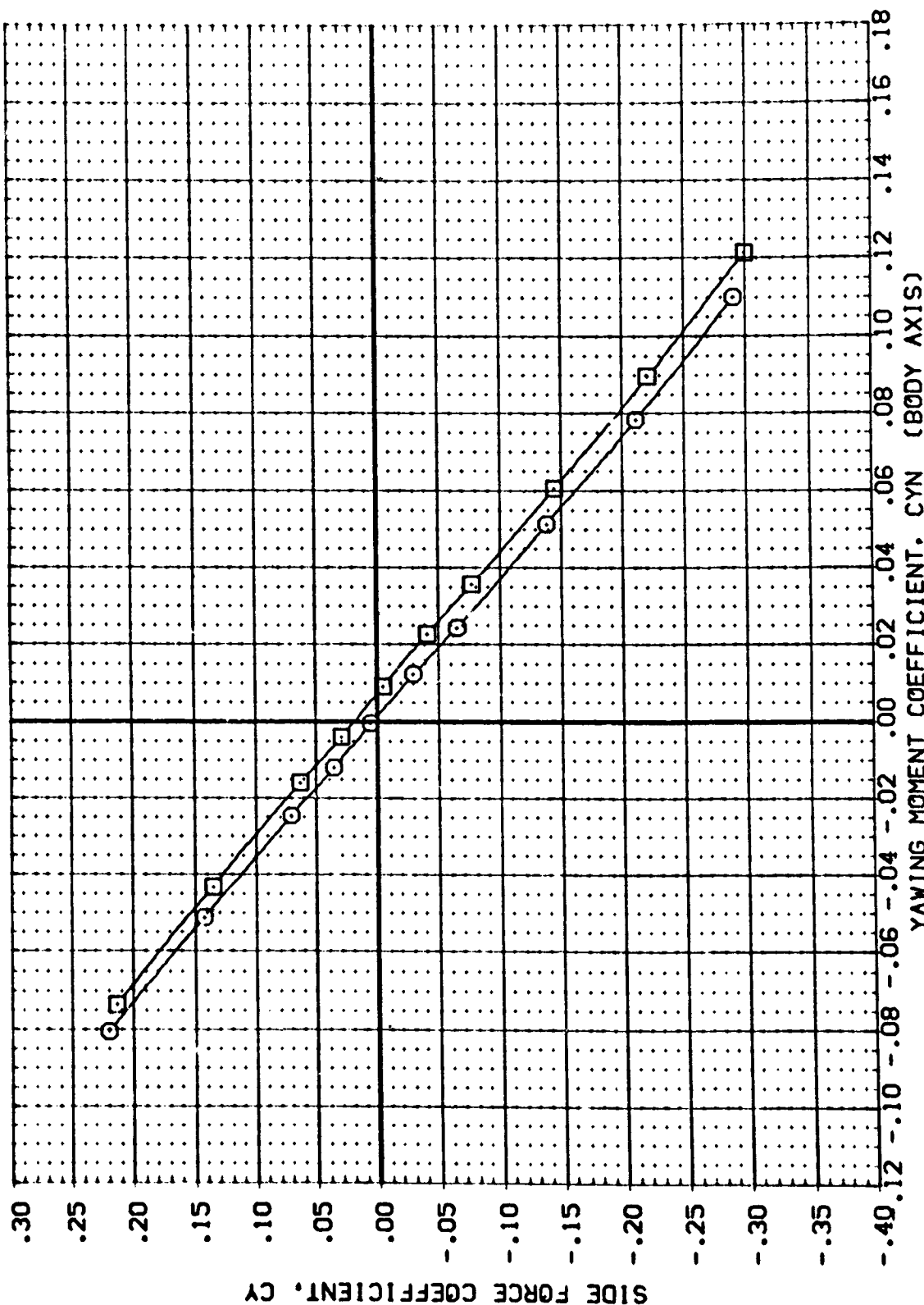


YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(C)MACH = 2.86

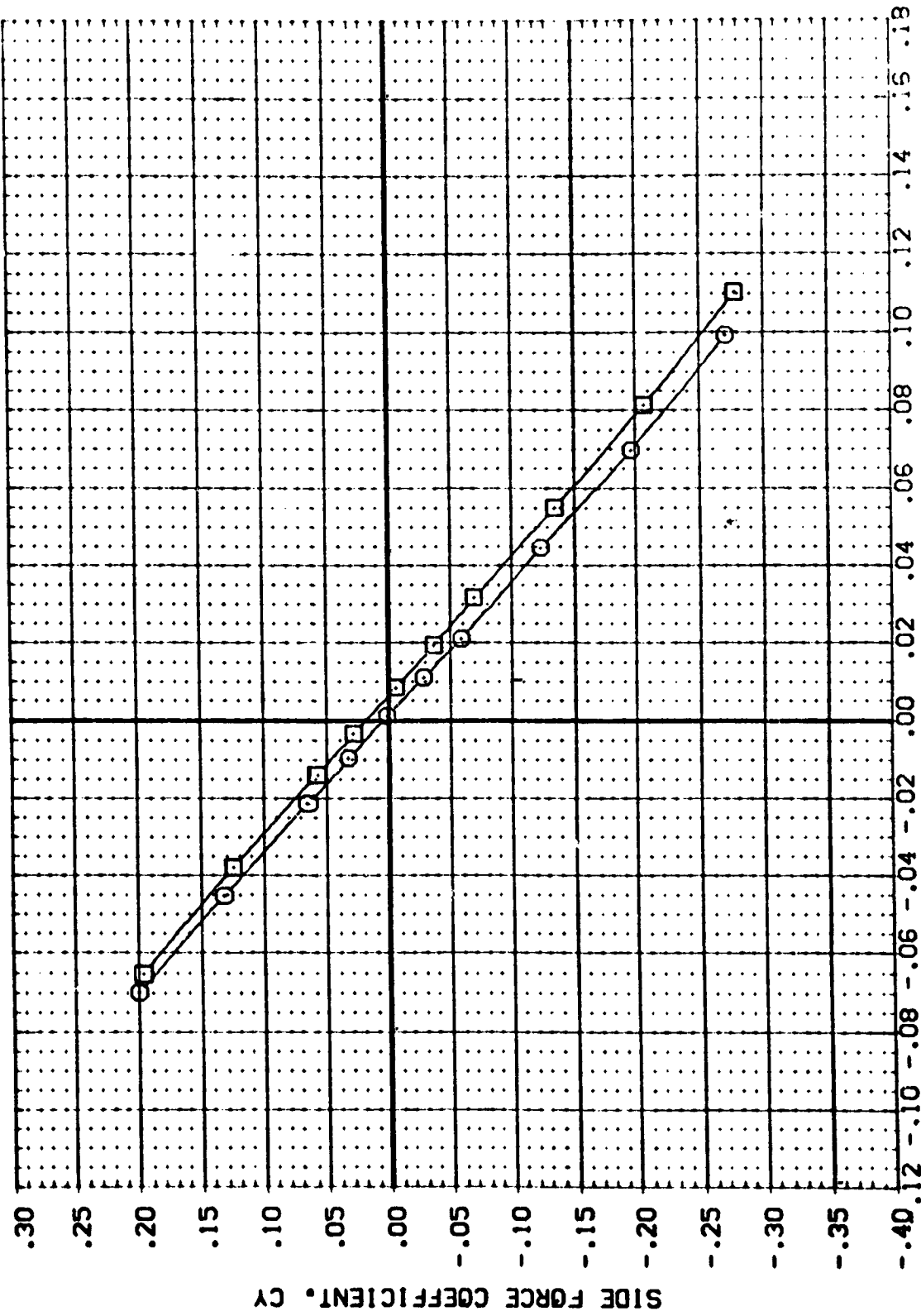
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		TIPISIP201		ALPHA		RUDDER		REFERENCE INFORMATION	
1060091		LRC_PVT 1056/1073 1A42A/B		TIPISIP201		.000		.000		SREF 2690.0000 SQ.FT.	
1060111		LRC_PVT 1056/1073 1A42A/B		TIPISIP201		.000		-20.000		LREF 1290.3000 INCHES	
										BREF 1290.3000 INCHES	
										XMRP 976.0000 INCHES	
										YMRP 400.0000 INCHES	
										ZMRP 400.0000 INCHES	
										SCALE .01EC	



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	REFERENCE INFORMATION
1050091	LRC UPVT 1056/1073 1A42A/B	.000	.000	SREF 2690.0000 SQ. FT.
1050091	LRC UPVT 1056/1073 1A42A/B	.000	-20.000	LREF 1290.3000 INCHES
				BREF 1290.3000 INCHES
				XMRP 976.0000 INCHES
				YMRP 400.0000 INCHES
				ZMRP 400.0000 INCHES
				SCALE .0150



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

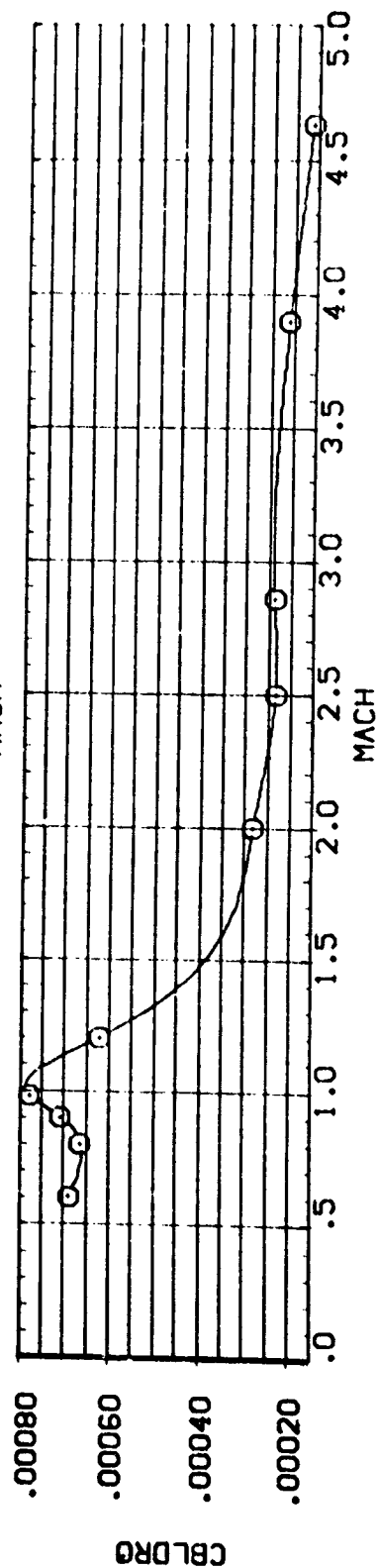
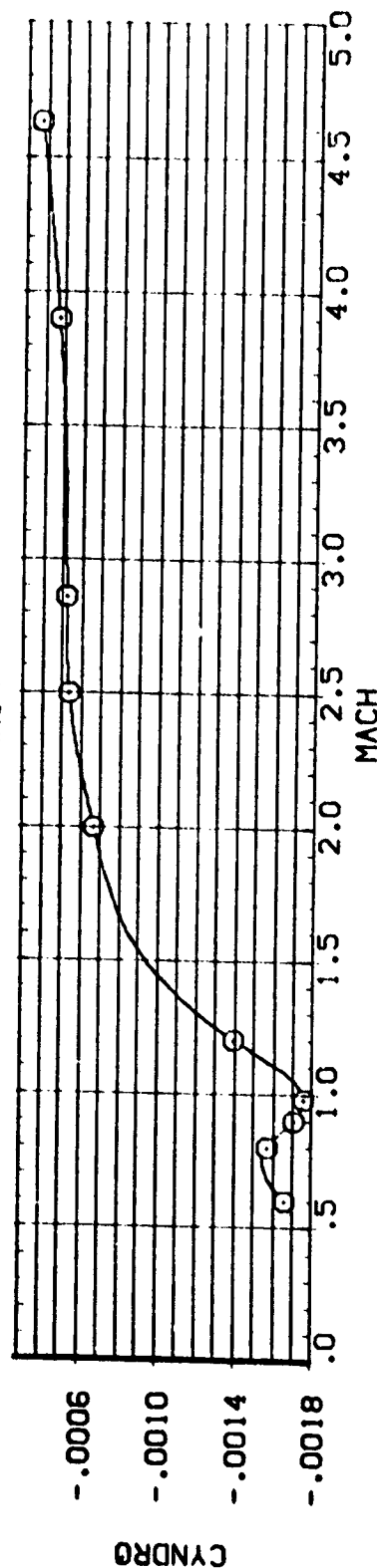
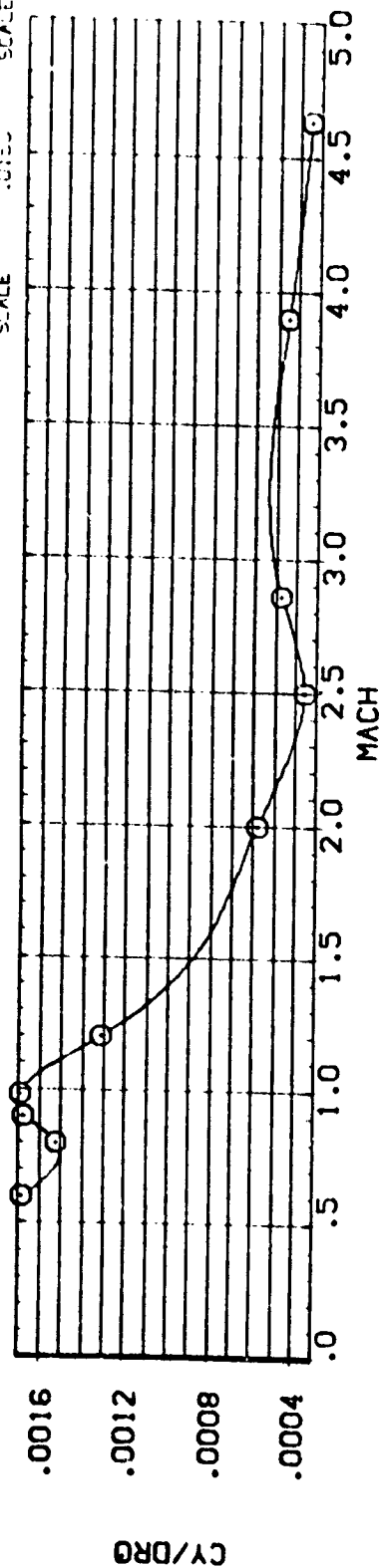
(E)MACH = 4.63

LRC 8 TPT 667 [A4] TIP1SIP201

(G06009)

PARAMETRIC VALUES
CLIPD -71.000 ALPHA .000

REFERENCE INFORMATION
SREF 2690.0000 SCALE
LREF 1230.3000 INCHES
BREF 1290.3000 INCHES
XMRP 976.0000 INCHES
YMRP 5000 INCHES
ZMRP 400.0000 INCHES
SCALE .0150



EFFECT OF RUDDER DEFLECTION ON LAT.-DIRECT. CHARACTERISTICS

APPENDIX
TABULATED SOURCE DATA

(Data from IA41--CN, CLM, CA, CAFT, CABT, and
XAC/L--for Mach numbers of 0.60 to 1.20 are
listed with IA42A/B tabulated source data.)

Tabulations of plotted data are available on request from
Data Management Services.

DATE 12 JUL

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (IA42A/B)

PAGE 1

LRC UPWT 1056/1073 IA42A/B T1P1

(R06001) (01 MAR 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 5/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
1.600	-10.265	-.00704	599.65015	-.13985	.17286	-.01140	.00024	-.00016	.00226	-.10680	.19592
1.600	-8.257	-.00651	600.93713	-.10770	.16756	-.01015	.00019	-.00003	.00193	-.08292	.18129
1.600	-6.096	-.00570	601.08361	-.07889	.16242	-.00663	.00010	.00070	.00067	-.06120	.16988
1.600	-4.072	-.00740	600.87281	-.05438	.15782	-.00206	.00007	.00057	.00134	-.04304	.16129
1.600	-1.979	-.00699	600.78849	-.03181	.15327	.00212	.00002	.00039	.00147	-.02643	.15627
1.600	.111	-.00818	601.12577	-.01072	.15829	.00775	-.00002	-.00015	.00258	-.01103	.15627
1.600	2.197	-.00731	601.50322	.01031	.15558	.01317	-.00006	-.00009	.00223	.00434	.15586
1.600	4.292	-.01047	601.58934	.03470	.15489	.01759	-.00009	.00039	.00247	.02301	.15705
1.600	6.390	-.00899	601.46306	.05915	.15324	.02239	-.00001	.00101	.00118	.04150	.16586
1.600	8.490	-.00976	601.54738	.08630	.15758	.02695	.00001	.00137	.00090	.06209	.16859
1.600	10.604	-.01087	602.05330	.11851	.15941	.03020	.00009	.00178	.00064	.08715	.17849
GRADIENT		-.00031	.10284	.01054	-.00027	.00241	-.00002	-.00004	.00014	.00779	-.00043

RUN NO. 7/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-9.674	-.00892	591.27997	-.14550	.15879	-.00370	.00021	.00049	.00193	-.11674	.18099
2.000	-7.654	-.00998	594.93007	-.10922	.15307	-.00433	.00016	.00024	.00257	-.08786	.16825
2.000	-5.498	-.00994	594.50064	-.07715	.14854	-.00348	.00006	.00080	.00179	-.06256	.15525
2.000	-3.479	-.00908	593.74915	-.05256	.14462	.00052	.00002	.00086	.00144	-.04368	.14754
2.000	-1.397	-.01079	593.53444	-.02963	.14377	.00321	-.00001	.00142	.00117	-.02612	.14445
2.000	.705	-.01069	593.57023	-.00665	.14349	.01005	-.00006	.00062	.00226	-.00842	.14340
2.000	2.799	-.01273	593.67758	.01802	.14213	.01432	-.00009	.00123	.00199	.01106	.14284
2.000	4.888	-.01395	593.71337	.04265	.14242	.01836	-.00013	.00136	.00218	.03036	.14554
2.000	6.993	-.01628	593.64180	.07070	.14305	.02176	-.00005	.00135	.00287	.05275	.15059
2.000	9.099	-.01450	593.57023	.10318	.14502	.02383	.00002	.00191	.00156	.07895	.15922
2.000	11.217	-.01478	593.60601	.14387	.14782	.02189	.00003	.00184	.00174	.11237	.17298
GRADIENT		-.00036	.00344	.01137	-.00029	.00214	-.00002	.00004	.00011	.00885	-.00027

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 2

(R06001) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1

REFERENCE DATA

SREF = 2890.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 490.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 1/ 0 RNL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.332	-.00963	543.20256	-.13157	.14593	.00331	.00028	-.00010	.00321	-.12531	.16901
2.500	-7.496	-.01086	543.35620	-.10768	.14187	-.00146	.00024	.00078	.00238	-.08825	.15470
2.500	-5.366	-.01010	543.27938	-.07869	.13733	-.00140	.00018	.00053	.00249	-.06531	.14008
2.500	-3.345	-.01468	543.27938	-.04820	.13421	.00098	.00015	.00099	.00335	-.04028	.13679
2.500	-1.250	-.01378	543.50983	-.02352	.13264	.00427	.00010	.00107	.00290	-.02059	.13313
2.500	.830	-.01337	543.71468	-.00551	.13150	.00915	.00005	.00080	.00553	-.00241	.13148
2.500	2.914	-.01521	543.61225	.02783	.13028	.01108	.00001	.00115	.00324	.02117	.13153
2.500	5.000	-.01478	543.20256	.05080	.13028	.01552	.00002	.00097	.00337	.03925	.13421
2.500	7.096	-.01807	543.20256	.08651	.13115	.01515	.00004	.00116	.00414	.05965	.14023
2.500	9.194	-.01927	543.22817	.12131	.13238	.01451	.00006	.00130	.00433	.09860	.15006
2.500	11.292	-.01917	543.22817	.16316	.13416	.00949	.00012	.00118	.00447	.13373	.16351
2.500	GRADIENT	-.00008	-.00244	.01195	-.00049	.00172	-.00002	.00000	.00002	.00963	-.00032

RUN NO. 3/ 0 RNL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.800	-10.606	-.00389	495.24648	-.16538	.13513	.05686	.00018	.00063	.00118	-.13769	.16326
2.800	-8.591	-.00846	495.16945	-.12418	.13164	.00022	.00019	.00072	.00196	-.10312	.14872
2.800	-6.453	-.00867	494.97689	-.08846	.12701	-.00171	.00013	.00066	.00212	-.07362	.13515
2.800	-4.453	-.00773	495.20797	-.05996	.12359	-.00208	.00007	.00076	.00165	-.05018	.12737
2.800	-2.385	-.00778	495.03466	-.03723	.12192	.00185	.00002	.00108	.00122	-.03212	.12335
2.800	-.308	-.00844	495.01541	-.01249	.12034	.00474	.00003	.00072	.00194	-.01184	.12061
2.800	1.766	-.00992	494.82285	.01217	.11955	.00744	-.00001	.00096	.00213	.00848	.11956
2.800	3.841	-.01012	495.32350	.03692	.11922	.01059	-.00007	.00091	.00228	.02885	.12142
2.800	5.916	-.00951	495.09243	.06339	.11932	.01177	-.00006	.00108	.00182	.05076	.12522
2.800	7.990	-.01082	495.15020	.09506	.12023	.01138	-.00005	.00087	.00257	.07742	.13228
2.800	10.086	-.01167	495.07317	.13487	.12186	.00794	.00003	.00096	.00275	.11144	.14359
2.800	GRADIENT	-.00033	.00095	.01172	-.00054	.00149	-.00001	.00001	.00010	.00958	-.00079

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (IA42A/B)

PAGE 3

LRC UPWT 1056/1073 IA42A/B T1P1

(R06001) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

PARAMETRIC DATA

RUN NO. 107/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-10.535	.01609	376.05225	-.15500	.11409	.00702	.00000	-.00011	.00116	-.13152	.14050
3.900	-8.468	.01703	375.98007	-.12091	.11195	.00367	.00000	-.00012	.00112	-.10311	.12854
3.900	-6.396	.01716	375.28239	-.08696	.10965	.00033	.00000	-.00014	.00108	-.07421	.11866
3.900	-4.332	.01666	375.87582	-.05684	.10728	-.00068	-.00001	.00003	.00109	-.04858	.11126
3.900	-2.269	.01672	376.42916	-.03270	.10558	.00107	-.00010	-.00003	.00113	-.02849	.10679
3.900	-.220	.01813	376.53341	-.00893	.10480	.00277	-.00001	.00007	.00055	-.00813	.10484
3.900	1.839	.01817	376.08433	.01276	.10545	.00608	-.00001	.00030	.00011	.00937	.10581
3.900	3.901	.01762	375.93998	.03692	.10515	.00804	-.00002	.00044	.00017	.02968	.10742
3.900	5.961	.01832	375.62722	.06671	.10580	.00736	-.00002	.00022	.00015	.05536	.11216
3.900	8.045	.01841	375.68336	.09513	.10635	.00742	-.00002	.00018	.00017	.07931	.11662
3.900	10.699	.01913	376.11640	.12919	.10650	.00520	-.00002	-.00004	.00014	.10851	.12750
GRADIENT		.00016	-.01053	.01132	-.00021	.00109	.00000	.00006	-.00014	.00945	-.00042

RUN NO. 111/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-9.863	-.00288	291.14894	-.14265	.10868	.00501	.00011	.00008	.00148	-.12193	.13150
4.630	-7.803	-.00277	291.14894	-.10628	.10661	.00129	.00011	.00007	.00143	-.09082	.12005
4.630	-5.763	-.00267	291.14894	-.07364	.10378	-.00097	.00011	.00005	.00140	-.06285	.11065
4.630	-3.708	-.00260	290.72982	-.04649	.10138	-.00077	.00011	.00001	.00142	-.03984	.10417
4.630	-1.666	-.00121	291.14894	-.02303	.09995	.00089	.00011	.00053	.00000	-.02011	.10058
4.630	.376	-.00116	291.14894	.00041	.09889	.00315	.00010	.00047	.00005	-.00024	.09889
4.630	2.421	-.00111	291.14894	.02394	.09861	.00540	.00010	.00042	.00009	.01965	.09953
4.630	4.475	-.00106	291.14894	.04724	.09807	.00736	.00010	.00037	.00013	.03945	.10145
4.630	6.513	-.00039	290.72982	.07421	.09604	.00680	.00010	.00009	.00011	.06261	.10582
4.630	8.572	.00030	291.14894	.10302	.09818	.00629	.00010	-.00019	.00009	.08723	.11244
4.630	10.623	.00039	290.72982	.13201	.09857	.00464	.00010	-.00022	.00008	.11157	.12121
GRADIENT		.00016	.04095	.01146	-.00039	.00102	-.00000	.00003	-.00012	.00970	-.00032

DATE 12 JUL 74

PAGE 4

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(R6902) (51 MAR 74)

LRC UPWT 1086/1073 1A42A/B T1P1

REFERENCE DATA

SEEP = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 6/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
1.600	-10.296	5.31215	601.92682	-15424	.17383	-.05427	-.00123	-.00915	-.07047	-.12068	.19860
1.600	-8.267	5.30568	602.68571	-11730	.16991	-.00509	-.00110	-.00903	-.06867	-.09165	.19551
1.600	-6.099	5.29873	602.85435	-.08332	.16697	-.00341	-.00096	-.00849	-.06740	-.06709	.17509
1.600	-4.085	5.29615	602.98084	-.05618	.16442	-.00239	-.00090	-.00909	-.06580	-.04434	.16800
1.600	-1.989	5.29644	602.81219	-.03189	.16325	-.00155	-.00083	-.00936	-.05524	-.02621	.16425
1.600	.104	5.29894	602.51707	-.01074	.16149	.001751	-.00082	-.00380	-.05568	-.01104	.16147
1.600	2.190	5.30496	603.31812	.01023	.16030	.01244	-.00076	-.00933	-.06756	.00410	.16037
1.600	4.294	5.31549	603.23380	.03315	.16066	.01801	-.00079	-.00674	-.07462	.02102	.16269
1.600	6.383	5.32380	600.57768	.05780	.16135	.02289	-.00082	-.00442	-.06553	.03950	.16578
1.600	8.483	5.33957	600.61984	.08185	.16370	.02884	-.00079	-.00114	-.06977	.05681	.17359
1.600	10.612	5.35547	601.16793	.11452	.16588	.03323	-.00071	.00244	-.09920	.08201	.18473
GRADIENT		.00226	.04833	.01055	-.00050	.00247	.00001	.00024	-.00097	.00769	-.00068

RUN NO. 8/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-9.688	5.28523	593.74915	-15808	.16002	.00366	-.00107	-.00414	-.07634	-.12890	.13434
2.000	-7.670	5.29432	593.74915	-.12115	.15582	.00136	-.00095	-.00582	-.07124	-.09927	.17055
2.000	-5.501	5.28849	593.85651	-.08383	.15242	.00029	-.00083	-.00638	-.06855	-.06883	.15376
2.000	-3.496	5.28688	593.92808	-.05601	.15020	.00175	-.00076	-.00717	-.06697	-.04674	.15333
2.000	-1.392	5.28603	593.78494	-.02982	.14755	.00452	-.00075	-.00710	-.06693	-.02623	.14222
2.000	.688	5.28948	593.74915	-.00678	.14562	.00934	-.00074	-.00684	-.06422	-.00856	.14551
2.000	2.788	5.29448	593.82072	.01632	.14563	.01438	-.00072	-.00552	-.07152	.00922	.14621
2.000	4.893	5.30565	593.85651	.04292	.14659	.01855	-.00075	-.00301	-.07828	.03025	.14972
2.000	6.986	5.31551	593.89229	.06935	.14851	.02256	-.00077	.00042	-.08595	.05077	.15555
2.000	9.101	5.32789	593.92808	.10361	.15036	.02451	-.00068	.00471	-.09557	.07852	.16442
2.000	11.227	5.33940	593.96386	.14945	.15076	.02009	-.00062	.00647	-.10139	.11724	.17173
GRADIENT		.00219	-.00513	.01164	-.00044	.00207	.00000	.00047	-.00130	.00904	-.00064

DATE 12 JUL 74

REF. TEST SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 5

LRC UPWT 1056/1073 1A42A/B T1P1

(R66002) (01 MAR 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 2/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.513	5.26197	543.99634	-.16204	.14640	.01010	-.00078	.00024	-.08255	-.13562	.17117
2.500	-7.509	5.24637	544.14998	-.11861	.14339	.00405	-.00077	-.00215	-.07421	-.09885	.15766
2.500	-5.358	5.24285	543.81710	-.08010	.14009	.00218	-.00065	-.00336	-.07144	-.06667	.14696
2.500	-3.348	5.24141	543.58665	-.05194	.13758	.00292	-.00058	-.00309	-.07028	-.04381	.14038
2.500	-1.257	5.23978	544.30361	-.02529	.13591	.00596	-.00057	-.00401	-.06949	-.02230	.13643
2.500	.835	5.24482	544.04755	.00132	.13334	.00897	-.00062	-.00330	-.07212	-.05062	.13335
2.500	2.922	5.24873	543.94513	.02618	.13364	.01292	-.00060	-.00200	-.07521	-.01933	.13480
2.500	5.008	5.25802	544.25240	.05278	.13375	.01571	-.00064	.00040	-.08148	.04590	.13785
2.500	7.098	5.26440	544.27801	.08476	.13492	.01629	-.00060	.00414	-.08873	.06744	.14435
2.500	9.194	5.27320	544.40604	.12131	.13567	.01448	-.00058	.00700	-.09553	.09807	.15331
2.500	11.298	5.28096	544.04755	.16320	.13611	.00938	-.00058	.00752	-.09878	.13334	.16583
GRADIENT		.00129	.03922	.01249	-.00069	.00159	-.00001	.00031	-.00083	.01010	-.00595

RUN NO. 4/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-10.589	5.23229	495.32350	-.17147	.13558	.01101	-.00079	.00251	-.08341	-.14364	.16478
2.860	-8.602	5.22326	495.36201	-.13433	.13255	.00590	-.00072	.00044	-.07735	-.11300	.15115
2.860	-6.462	5.21596	495.36201	-.09664	.12905	.00296	-.00065	-.00163	-.07189	-.08150	.13910
2.860	-4.459	5.21518	495.18871	-.06396	.12577	.00176	-.00059	-.00235	-.07064	-.05399	.13037
2.860	-2.385	5.21359	495.51606	-.03947	.12382	.00344	-.00057	-.00247	-.06986	-.03428	.12536
2.860	-.308	5.21500	495.15020	-.01493	.12245	.00561	-.00063	-.00207	-.07097	-.01427	.12253
2.860	1.761	5.21832	495.28499	.00990	.12102	.00873	-.00061	-.00130	-.07320	.01618	.12127
2.860	3.836	5.22257	495.18871	.03667	.12156	.01061	-.00060	.00007	-.07662	.02845	.12374
2.860	5.917	5.22839	495.32350	.06536	.12158	.01176	-.00057	.00271	-.08232	.05248	.12767
2.860	7.993	5.23338	495.47755	.09695	.12236	.01093	-.00061	.00392	-.08854	.07899	.13466
2.860	10.100	5.23890	495.40053	.13873	.12353	.00644	-.00060	.00700	-.09199	.11452	.14595
GRADIENT		.00094	-.01115	.01209	-.00054	.00111	-.00000	.00029	-.00074	.00990	-.00084

(R06002) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 108/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-10.539	5.19004	375.84374	-.16232	.11479	.01080	-.00065	.00246	-.07393	-.13859	.14234
3.900	-8.473	5.18737	375.90790	-.12537	.11229	.00635	-.00065	.00075	-.07066	-.10746	.12954
3.900	-6.402	5.18408	375.53901	-.09136	.11089	.00349	-.00064	-.00078	-.06743	-.07843	.12039
3.900	-4.337	5.18271	375.87582	-.06134	.10923	.00250	-.00064	-.00208	-.06518	-.05290	.11355
3.900	-2.280	5.18339	375.92394	-.03720	.10765	.00377	-.00035	-.00231	-.06516	-.05289	.10904
3.900	-.220	5.18346	375.85978	-.01302	.10724	.00595	-.00035	-.00237	-.06513	-.05161	.10729
3.900	1.841	5.18623	375.71544	.01405	.10710	.00653	-.00036	-.00153	-.06738	.01060	.10750
3.900	3.898	5.18764	375.84374	.03823	.10735	.00801	-.00047	-.00113	-.06845	.03084	.10970
3.900	5.970	5.19251	375.83573	.06806	.10723	.00729	-.00048	.00079	-.07290	.05654	.11373
3.900	8.031	5.19724	375.91592	.09654	.10813	.00730	-.00049	.00189	-.07624	.08048	.12056
3.900	10.108	5.20140	375.89988	.13078	.10897	.00507	-.00049	.00319	-.07962	.10963	.13024
GRADIENT		.00062	-.01325	.01216	-.00021	.00067	-.00002	.00013	-.00043	.01025	-.00045

RUN NO. 112/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-9.870	5.14870	290.72982	-.14327	.10932	.00657	-.00048	.00117	-.07035	-.12438	.13260
4.630	-7.805	5.14733	290.72982	-.10883	.10727	.00345	-.00047	-.00048	-.06756	-.09326	.12106
4.630	-5.757	5.14609	290.72982	-.07612	.10482	.00118	-.00035	-.00108	-.06614	-.06522	.11193
4.630	-3.703	5.14483	290.72982	-.04896	.10183	.00081	-.00036	-.00168	-.06470	-.04228	.10478
4.630	-1.665	5.14354	290.72982	-.02553	.10019	.00308	-.00036	-.00230	-.06321	-.02260	.10089
4.630	.381	5.14420	290.72982	-.00218	.09945	.00416	-.00036	-.00259	-.06322	-.00284	.09944
4.630	2.417	5.14560	290.72982	.02132	.09921	.00643	-.00036	-.00208	-.06462	.01712	.10002
4.630	4.470	5.14836	290.72982	.04847	.09861	.00632	-.00037	-.00097	-.06751	.04064	.10209
4.630	6.509	5.15112	290.72982	.07543	.09843	.00572	-.00038	.00014	-.07040	.06379	.10635
4.630	8.565	5.15255	290.72982	.10436	.09870	.00463	-.00038	.00068	-.07185	.08813	.11314
4.630	10.611	5.15399	290.72982	.13329	.09895	.00293	-.00026	.00123	-.07332	.11279	.12180
GRADIENT		.00045	-.00000	.01183	-.00036	.00070	-.00000	.00008	-.00034	.01006	-.00031

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 12 JUL 74

(R06003) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P2

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

RUN NO. 13/0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
1.600	-6.560	-.00721	602.17979	-.25978	.25843	.02968	-.00066	-.00168	.00443	-.22856	.28641
1.600	-4.393	-.00370	602.39059	-.17250	.25699	.02315	-.00048	-.00187	.00425	-.15231	.26944
1.600	-2.132	-.00753	602.39059	-.09406	.25822	.01912	-.00035	-.00175	.00462	-.08430	.26157
1.600	.044	-.00673	602.55923	-.01862	.25479	.00945	-.00017	-.00076	.00300	-.01882	.25477
1.600	2.256	-.00971	602.51707	.06395	.25673	-.00075	.00022	-.00105	.00427	.05380	.25904
1.600	4.489	-.01168	602.72787	.14328	.25891	-.00783	.00035	-.00057	.00416	.12456	.26949
1.600	6.716	-.01254	602.77003	.22671	.26079	-.01342	.00059	.00003	.00357	.19466	.28552
1.600	8.988	-.01229	602.68571	.33102	.26232	-.02721	.00105	.00075	.00249	.28598	.31081
1.600	11.270	-.01795	603.06516	.46805	.26013	-.06194	.00132	.00158	.00295	.40818	.34658
GRADIENT		-.00064	.03613	.03579	.00011	-.00369	.00010	.00015	-.00002	.03120	-.00011

RUN NO. 15/0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-10.318	-.00901	592.38931	-.46613	.23227	.09421	-.00039	-.00076	.00370	-.41699	.31200
2.000	-8.185	-.00843	592.60402	-.35907	.23210	.08256	-.00059	-.00172	.00488	-.31643	.28000
2.000	-5.882	-.00818	592.60402	-.24171	.23168	.03960	-.00047	-.00098	.00376	-.21669	.25523
2.000	-3.747	-.00786	592.60402	-.15439	.23113	.02769	-.00047	-.00159	.00452	-.13896	.24072
2.000	-1.520	-.00948	592.60402	-.07405	.22889	.01825	-.00040	-.00114	.00438	-.06795	.23078
2.000	.661	-.01001	592.60402	.00208	.22560	.00572	-.00087	-.00086	.00414	-.00052	.22561
2.000	2.847	-.01320	592.60402	.07205	.23025	-.01065	.00025	-.00011	.00402	.06053	.23354
2.000	5.076	-.01241	592.60402	.15796	.23146	-.02792	.00058	.00028	.00334	.13687	.24453
2.000	7.315	-.01444	592.60402	.25838	.22966	-.05408	.00064	-.00022	.00462	.22692	.26164
2.000	9.544	-.01940	592.60402	.37068	.22966	-.09221	.00040	.00079	.00599	.32747	.28794
2.000	11.790	-.01691	592.60402	.50041	.22852	-.09221	.00007	.00021	.00385	.44316	.32595
GRADIENT		-.00075	-.00070	.03440	-.00027	-.00447	.00007	.00021	-.00008	.03032	-.00122

RUN NO. 9/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-10.022	-.01165	543.53544	-.43244	.20733	.10075	-.00049	-.00121	.00542	-.38976	.27942
2.500	-7.884	-.00723	543.58665	-.31315	.20670	.06649	-.00052	-.00157	.00450	-.28184	.24770
2.500	-5.625	-.01498	543.22817	-.21346	.20600	.04387	-.00051	-.00162	.00706	-.19224	.22593
2.500	-3.528	-.01040	543.43301	-.13230	.20554	.02966	-.00021	-.00089	.00457	-.11940	.21330
2.500	-1.343	-.01710	543.30498	-.05109	.20363	.01775	-.00012	-.00067	.00453	-.04630	.20477
2.500	.789	-.01194	543.74028	.01261	.20086	.00696	.00018	.00095	.00248	.00984	.20102
2.500	2.974	-.01598	543.63786	.09201	.20286	-.00437	.00036	.00050	.00440	.08136	.20736
2.500	5.155	-.01475	543.66347	.17498	.20242	-.01804	.00067	.00081	.00357	.15609	.21732
2.500	7.332	-.01622	543.17695	.27189	.20144	-.04032	.00078	.00058	.00437	.24396	.23449
2.500	9.530	-.02105	543.74028	.37447	.20008	-.06722	.00103	.00142	.00474	.33617	.25932
2.500	11.712	-.01340	543.74028	.48755	.19971	-.10250	.00118	.00264	.00058	.43686	.29453
GRADIENT		-.00054	.04827	.03405	-.00050	-.00522	.00009	.00021	-.00012	.03044	-.00100

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (IA42A/B)

PAGE 8

LRC UPWT 1056/1073 IA42A/B T1P1S1P2

(R06003) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 11/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-11.041	-0.1117	494.93764	-43981	.19023	.10882	-0.0017	.00209	.00999	-.39524	.27094
2.860	-8.929	-0.0947	435.53532	-33179	.18867	.07512	-0.0034	-.00006	.00339	-.29848	.23788
2.860	-6.726	-0.0957	495.76639	-23755	.18689	.04958	-0.0023	-.00050	.00416	-.21402	.21343
2.860	-4.663	-0.1131	495.49681	-16642	.18580	.03441	-0.0029	.00008	.00385	-.15016	.19871
2.860	-2.501	-0.1519	494.24516	-08443	.18473	.01993	-0.0021	.00078	.00424	-.07629	.18824
2.860	-1.370	-0.1227	494.59177	-01848	.18256	.00938	-0.0019	.00161	.00206	-.01731	.18268
2.860	1.755	-0.1443	494.74582	.04679	.18271	-.00304	.00025	.00116	.00344	-.04117	.18406
2.860	3.885	-0.1102	494.37996	.11463	.18236	-.01434	.00031	.00065	.00297	.10201	.18971
2.860	6.041	-0.1273	494.72657	.20045	.18150	-.03242	.00371	.00048	.00379	.18023	.20158
2.860	8.198	-0.1141	494.34144	.28306	.18096	-.05648	.00090	.00085	.00281	.26426	.22190
2.860	10.332	-0.0977	494.76508	.38215	.18109	-.08355	.00068	.00116	.00181	.34347	.24670
GRADIENT		.00066	-.08151	.03248	-.00042	-.00564	.00008	.00007	-.00012	.02918	-.00104

RUN NO. 101/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-10.846	-0.0485	375.76355	-36542	.15958	.08959	-0.0002	-.00042	.00232	-.32886	.22549
3.900	-8.727	-0.0505	375.72345	-28813	.15677	.06859	.00007	-.00012	.00204	-.26101	.19867
3.900	-6.617	-0.0562	375.73949	-21365	.15561	.04964	.00007	-.00028	.00291	-.19429	.17919
3.900	-4.498	-0.0775	375.66732	-14328	.15525	.03276	.00017	-.00148	.00487	-.13066	.15801
3.900	-2.399	-0.0988	375.82771	-.08154	.15491	.02068	.00025	-.00058	.00478	-.07498	.15619
3.900	-.287	-0.0901	375.69940	-.01989	.15270	.00910	.00016	-.00084	.00462	-.01913	.15280
3.900	1.804	-0.0813	375.84374	.03861	.15189	-.00405	.00008	-.00099	.00442	.03381	.15303
3.900	3.921	-0.0788	375.79563	.10341	.15250	-.01476	.00008	-.00097	.00430	.08974	.15901
3.900	6.039	-0.0754	375.76355	.17327	.15294	-.03214	.00008	-.00090	.00407	.15622	.17032
3.900	8.163	-0.0733	375.69138	.24773	.15413	-.05014	.00009	-.00166	.00493	.22334	.18775
3.900	10.289	-0.0694	375.72345	.32781	.15645	-.07130	.00010	-.00157	.00466	.29460	.21249
GRADIENT		.00007	.01293	.02887	-.00040	-.00569	-.00002	.00003	-.00007	.02612	-.00091



CALCULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

LRC UPWT 1056/1073 1A42A/B T1P1S1P2

(R06003) (01 MAR 74)

DATE 12 JUL 74

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

RUN NO. 105/0 RNL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q(PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-10.113	.01741	290.69331	-.31805	.15359	.07158	.00035	-.00131	.00232	-.28614	.20705
4.630	-8.528	.01771	290.69331	-.24424	.15032	.05348	.00038	-.00122	.00205	-.22083	.18315
4.630	-5.930	.01736	290.69331	-.17796	.14744	.03894	.00046	-.00092	.00187	-.16178	.16504
4.630	-3.860	.01627	290.69331	-.11340	.14630	.02507	.00046	-.00144	.00311	-.10329	.15360
4.630	-1.776	.01587	290.69331	-.05644	.14510	.01479	.00034	-.00117	.00300	-.05191	.14678
4.630	.297	.01474	290.69331	.00049	.14181	.00393	.00035	-.00171	.00430	-.00025	.14181
4.630	2.369	.01553	290.27420	.05369	.14239	-.00606	.00024	-.00194	.00415	.04776	.14449
4.630	4.451	.01767	290.27420	.11077	.14237	-.01637	.00012	-.00159	.00254	.09938	.15054
4.630	6.534	.01791	290.69331	.17467	.14207	-.03062	.00001	-.00154	.00235	.15737	.16102
4.630	8.623	.01816	290.69331	.24073	.14374	-.04628	.00001	-.00148	.00215	.21646	.17821
4.630	10.702	.01846	290.69331	.31417	.14617	-.06605	.00013	-.00139	.00188	.28157	.20197
4.630	GRADIENT	.00012	-.06052	.02689	-.00031	-.00499	-.00004	-.00005	.00000	.02432	-.00041

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPVT 1056/1073 (1A42A/B)

PAGE 10

LRC UPVT 1056/1073 1A42A/B T1P1S1P2

(R06004) (01 MAR 74)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 14/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
1.600	-6.587	5.27559	603.73973	-26764	.25755	.03088	.01154	.00332	-.00264	-.23633	.28655
1.600	-4.390	5.26369	603.97837	-16971	.25745	.01721	.00744	.00154	-.07728	-.14947	.26970
1.600	-2.166	5.26206	603.69737	-.08991	.25912	.01241	.00331	.00286	-.07811	-.08005	.26233
1.600	.022	5.25859	603.69737	-.02050	.25855	.00718	.00016	.00518	-.08035	-.02060	.25854
1.600	2.293	5.26638	603.69737	.06255	.26091	-.00120	-.00330	.00502	-.08237	.05226	.26317
1.600	4.477	5.28428	604.03485	.14385	.26238	-.00905	-.00694	.00428	-.08643	.12294	.27281
1.600	6.718	5.30052	603.90837	.23203	.26357	-.01764	-.01045	.00479	-.09184	.19960	.28891
1.600	8.974	5.31417	600.99929	.33596	.26353	-.03347	-.01344	.00582	-.09763	.29074	.31271
1.600	11.257	5.33105	599.90311	.47753	.26107	-.07043	-.01404	.00604	-.10298	.41738	.34927
GRADIENT		.00188	.01145	.03517	.00053	-.00298	-.00160	.00034	-.00102	.03055	.00032

RUN NO. 16/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-10.315	5.32091	592.60402	-.47825	.23591	.10300	.01198	.00868	-.09927	-.42828	.31773
2.000	-8.170	5.30495	592.60402	-.35927	.23522	.08735	.01128	.01022	-.09676	-.32216	.28393
2.000	-5.884	5.28884	592.60402	-.24753	.23367	.04339	.00883	.00528	-.08513	-.22227	.25782
2.000	-3.738	5.27920	592.60402	-.15508	.23290	.02870	.00533	.00546	-.08256	-.13956	.24252
2.000	-1.516	5.27713	592.60402	-.07607	.23199	.01992	.00193	.00554	-.08207	-.06991	.23392
2.000	.637	5.27324	592.60402	.00218	.23085	.00610	-.00064	.00731	-.08399	-.00046	.23086
2.000	2.850	5.28462	592.60402	.07606	.23285	-.00265	-.00345	.00725	-.08666	.06440	.23614
2.000	5.073	5.29749	592.60402	.16214	.23313	-.01339	-.00678	.00612	-.08884	.14088	.24655
2.000	7.321	5.31263	592.60402	.26493	.23317	-.03128	-.00948	.00760	-.09534	.23306	.26502
2.000	9.547	5.32672	592.60402	.37831	.23114	-.05994	-.01027	.00906	-.10151	.33474	.29759
2.000	11.791	5.33188	592.60402	.50965	.23064	-.09885	-.01072	.01155	-.10650	.45176	.32992
GRADIENT		.00065	.00000	.03518	-.00009	-.00492	-.00132	.00033	-.00065	.03106	-.00102

RUN NO. 10/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.996	5.26203	543.71468	-.43301	.21105	.10920	.05869	.01113	-.09784	-.38980	.28301
2.500	-7.881	5.25763	543.38180	-.32340	.21016	.07397	.00863	.01192	-.09759	-.29153	.25252
2.500	-5.642	5.24509	543.97074	-.22226	.20848	.04987	.00722	.00806	-.08811	-.20068	.22932
2.500	-3.595	5.23879	543.38180	-.14656	.20779	.03363	.00500	.00524	-.08308	-.13324	.21657
2.500	-1.356	5.23215	543.76589	-.05746	.20613	.02057	.00177	.00554	-.08188	-.05257	.20743
2.500	.789	5.24280	543.99634	.01272	.20432	.00759	-.00029	.00632	-.08494	.00990	.20449
2.500	2.959	5.24414	543.38180	.08518	.20623	-.00315	-.00285	.00761	-.08726	.07442	.21075
2.500	5.145	5.24871	543.38180	.17245	.20406	-.01927	-.00543	.00929	-.09107	.15345	.21871
2.500	7.347	5.25983	543.50983	.27600	.20290	-.04327	-.00722	.01286	-.09973	.24779	.23657
2.500	9.531	5.26585	543.91952	.38389	.20159	-.07294	-.00747	.01496	-.10419	.34521	.27171
2.500	11.724	5.27016	543.63786	.49569	.20142	-.10661	-.00692	.01235	-.10216	.44442	.29744
GRADIENT		.00121	.01112	.03511	-.00030	-.00596	-.00118	.00023	-.00071	.3145	-.00102



TAFULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 12 JUL 74

(R08004) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P2

PARAMETRIC DATA

REFERENCE DATA

BETA = 5.000 RUDDER = .000

REF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0130 SCALE

RUN NO. 12/ 0 RV/L = 2.50 GRADIENT INTERVAL = -.50/ 5.00

MACH	ALPHA	BETA	Q(PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-11.001	5.25369	494.93838	-4.4421	.19439	.11325	.00749	.01182	-.09730	-.39895	.27558
2.865	-8.955	5.24503	494.34144	-.34327	.19287	.08125	.00750	.01249	-.09529	-.30907	.24395
2.860	-6.736	5.23972	494.34144	-.25305	.19046	.05809	.00702	.01113	-.09153	-.22898	.21882
2.865	-4.661	5.23661	494.49549	-.17181	.18859	.04012	.00560	.00761	-.08549	-.15592	.20192
2.860	-2.504	5.23281	494.70731	-.09282	.18671	.02526	.00301	.00540	-.08103	-.08457	.19059
2.865	-.370	5.22666	494.20665	-.02012	.18452	.01158	.00073	.00697	-.08114	-.01893	.18464
2.860	1.741	5.23339	494.80359	.04199	.18581	-.00124	.00147	.00643	-.08267	.03632	.18700
2.865	3.897	5.23702	494.59177	.11693	.18500	-.01528	.00383	.00898	-.08754	.10409	.19252
2.860	6.054	5.24272	494.76508	.20788	.18339	-.03622	-.00559	.01228	-.09412	.18738	.25429
2.865	8.204	5.24674	494.64954	.29801	.18283	-.05932	-.00626	.01361	-.09741	.26887	.22348
2.860	10.334	5.24930	494.03335	.38795	.18296	-.08632	-.00641	.01453	-.09969	.34883	.24938
GRADIENT		.00006	.01342	.03335	-.00038	-.00643	-.00109	.00018	-.00027	.03001	-.00105

RUN NO. 102/ 0 RV/L = 2.50 GRADIENT INTERVAL = -.50/ 5.00

MACH	ALPHA	BETA	Q(PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-10.858	5.19595	375.71544	-.37268	.16362	.09419	.00526	.00735	-.08277	-.33519	.23090
3.900	-8.735	5.19250	375.66732	-.29531	.16145	.07324	.00517	.00696	-.08084	-.26757	.20446
3.900	-6.621	5.19219	375.68336	-.22118	.15961	.05389	.00491	.00642	-.08003	-.20130	.18405
3.900	-4.507	5.19184	375.74751	-.15118	.15831	.03765	.00385	.00584	-.07915	-.13827	.16970
3.900	-2.392	5.19238	375.83573	-.08431	.15734	.02367	.00227	.00320	-.07609	-.07787	.16073
3.900	-.291	5.19071	375.65930	-.02381	.15649	.01156	.00031	.00296	-.07511	-.02301	.15661
3.900	1.805	5.19290	375.76355	.03412	.15641	-.00040	-.00138	.00321	-.07634	.02917	.15741
3.900	3.921	5.19478	375.63524	.10087	.15604	-.01489	-.00299	.00533	-.07978	.08997	.16258
3.900	6.049	5.19658	375.83573	.17614	.15605	-.03322	-.00397	.00654	-.08213	.15872	.17374
3.900	8.159	5.19687	375.61118	.24732	.15705	-.05046	-.00460	.00669	-.08236	.22273	.19059
3.900	10.284	5.20047	375.77959	.32733	.15872	-.07058	-.00530	.00744	-.08478	.29374	.21461
GRADIENT		.00030	-.01410	.02958	-.00026	-.00613	-.00082	-.00005	-.00007	.02677	-.00583

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 12

LRC UPWT 1056/1073 1A42A/B TIP1SIP2

(R06054) (01 MAR 74)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDSEP = .000

RUN NO. 106/ 0 RM/L = 2.49 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	Q(P/SF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-10.119	5.15284	290.27420	-32949	.15790	.07710	.00513	.00524	-.07813	-.29662	.21334
4.630	-8.020	5.15305	290.27420	-25217	.15436	.05765	.00468	.00426	-.07703	-.22816	.18803
4.630	-5.941	5.15214	290.27420	-18230	.15132	.04112	.00422	.00483	-.07723	-.16566	.16938
4.630	-3.857	5.15033	290.27420	-11806	.14891	.02741	.00330	.00348	-.07456	-.10778	.15632
4.630	-1.778	5.14846	290.27420	-56168	.14654	.01741	.00181	.00209	-.07181	-.05711	.14839
4.630	.299	5.14869	290.27420	-50175	.14448	.00480	.00008	.00211	-.07195	-.00230	.14447
4.630	2.372	5.15018	290.27420	.54716	.14454	-.00287	-.00153	.00266	-.07346	.04113	.14637
4.630	4.452	5.15250	290.27420	.11486	.14405	-.01854	-.00269	.00409	-.07650	.10333	.15253
4.630	6.528	5.15285	290.27420	.17489	.14397	-.03242	-.00350	.00519	-.07806	.15739	.16292
4.630	8.618	5.15562	290.27420	.24079	.14568	-.04738	-.00430	.00531	-.07971	.21624	.18512
4.630	10.700	5.15645	290.27420	.31032	.14820	-.06438	-.00510	.00511	-.07992	.27741	.20324
GRADIENT		.00729	.00000	.02767	-.00056	-.00540	-.00074	.00009	-.00027	.02506	-.05048



REF UP WT 1056/1073 1A42A/B T1P101

(R86005) (01 MAR 74)

REFE RENCE DATA

SREF = 2690.0000 SQ.FT. ORP = 976.0000 INCHES
 LREF = 1290.0000 INCHES YRP = .0000 INCHES
 BREF = 1290.0000 INCHES ZRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 23/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	G (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
1.700	-1.456	-0.1212	601.61389	-1.0504	.30245	.07809	.00150	-0.00082	.00329	-0.0711	.30509
1.700	-1.399	-0.1444	601.16356	-0.0851	.30027	.05432	.00150	-0.00007	.00302	-0.0642	.30067
1.700	1.811	-0.1007	604.35987	.04104	.29635	.00008	.00126	.00078	.00120	.03165	.29750
1.700	4.022	-0.1351	603.99100	.13702	.29209	-0.0401	.00169	-0.00027	.00303	.11626	.30098
1.700	6.238	-0.1702	603.58934	.23694	.28873	-0.0910	.00191	-0.00040	.00387	.25416	.31277
1.700	8.467	-0.1828	603.41722	.33255	.28718	-0.1438	.00212	-0.00188	.00559	.26664	.33301
1.700	10.689	-0.1895	603.29425	.41908	.28569	-0.18193	.00180	-0.00127	.00553	.33863	.35944
GRADIENT		.00004	.56261	.04405	-0.00186	-0.02313	.00002	.00011	-0.00142	.03884	-0.00070

RUN NO. 21/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	G (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-6.353	-0.0207	594.93007	-0.30400	.29115	.17252	.00198	-0.00229	.00682	-0.2691	.32101
2.000	-4.216	-0.0046	593.99565	-0.21457	.28859	.13008	.00184	-0.00143	.00584	-0.19207	.30359
2.000	-1.971	-0.0070	593.96366	-0.12366	.28568	.08476	.00214	-0.00266	.00795	-0.11383	.28777
2.000	.183	-0.0297	594.07122	-0.03751	.27366	.04263	.00220	-0.00240	.00775	-0.03240	.27854
2.000	2.394	-0.0650	594.25015	.04946	.27345	.00061	.00189	-0.00208	.00757	.03599	.27824
2.000	4.580	-0.0847	594.39329	.13295	.26777	-0.04017	.00203	-0.00249	.00836	.11105	.27752
2.000	6.782	-0.0878	594.57221	.21908	.26538	-0.08003	.00205	-0.00223	.00817	.16620	.28939
2.000	9.000	-0.03255	594.50064	.26981	.26421	-0.11364	.00174	-0.00188	.00860	.25479	.30786
2.000	11.205	-0.04213	594.75114	.37575	.26173	-0.14117	.00197	-0.00337	.01206	.31733	.33172
GRADIENT		-0.00077	.04283	.03949	-0.00236	-0.01934	.00001	-0.00007	.00023	.03455	-0.00295

RUN NO. 17/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	G (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.912	.00367	543.81710	-0.42417	.27844	.20792	.00102	-0.00144	.00058	-0.36990	.34730
2.500	-8.317	-0.00261	543.33059	-0.35472	.27494	.17810	.00121	-0.00271	.00257	-0.31124	.32325
2.500	-6.063	-0.0002	543.68957	-0.26695	.26628	.14588	.00137	-0.00232	.00469	-0.23733	.29299
2.500	-3.956	-0.01891	543.40741	-0.18927	.26010	.10826	.00149	-0.00254	.00679	-0.17087	.27254
2.500	-1.767	-0.02908	542.81847	-0.11354	.25277	.07338	.00224	-0.00341	.00996	-0.10569	.25615
2.500	.397	-0.03222	542.99771	-0.04169	.24679	.04454	.00206	-0.00359	.01065	-0.04241	.24449
2.500	2.568	-0.03263	542.99771	.03227	.24445	.01240	.00200	-0.00272	.01008	.02128	.24565
2.500	4.744	-0.04225	542.99771	.10600	.23916	-0.01910	.00191	-0.00269	.01224	.08585	.24711
2.500	6.910	-0.04025	543.91952	.17778	.23635	-0.04888	.00189	-0.00283	.01190	.14005	.25052
2.500	9.084	-0.04281	544.12437	.24953	.23430	-0.07614	.00177	-0.00315	.01280	.20891	.27058
2.500	11.276	-0.04811	543.86831	.32309	.23181	-0.10196	.00225	-0.00452	.01536	.27152	.29051
GRADIENT		-0.00231	-0.02954	.03388	-0.00231	-0.01462	.00003	.00002	.00051	.02946	-0.00282

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 14

LRC UPWT 1056/1073 1A42A/B T1P101

(R86055) (51 MAP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. ZREF = 976.0000 INCHES
 LREF = 1290.3000 INCHES YREF = .0000 INCHES
 BREF = 1290.3000 INCHES ZREF = 400.0000 INCHES
 SCALE = .0130 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 19/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-11.479	-.00119	495.03392	-.42827	.26958	.20116	.00043	-.00125	.00152	-.36675	.34942
2.860	-9.419	.00241	494.45698	-.35125	.26036	.16915	.00022	-.00061	-.00001	-.30388	.31453
2.860	-7.175	-.00925	493.33466	-.27573	.25037	.13876	.00036	-.00089	.00292	-.24230	.29245
2.860	-5.056	-.01070	494.59177	-.20505	.24188	.10954	.00046	-.00121	.00385	-.18275	.25914
2.860	-2.913	-.01222	494.34144	-.14244	.03436	.08522	.00042	-.00118	.00415	-.13035	.24130
2.860	-.803	-.01573	494.74582	-.07779	.22189	.05857	.00047	-.00120	.00509	-.07476	.22899
2.860	1.345	-.02111	494.56136	-.01148	.21583	.03113	.00112	-.00213	.00786	-.01669	.22156
2.860	3.467	-.02122	494.20655	.04898	.20957	.00762	.00076	-.00165	.00692	.03578	.21940
2.860	5.616	-.02783	494.91513	.11713	.20957	-.02137	.00112	-.00219	.00959	.05581	.22257
2.860	7.772	-.03028	494.51475	.18485	.20957	-.04827	.00124	-.00250	.01001	.11481	.23264
2.860	9.916	-.02592	494.49549	.25082	.20721	-.07392	.00133	-.00290	.00358	.21119	.24728
GRADIENT		-.00164	-.00364	.03010	-.00275	-.01223	.00008	-.00011	.00032	.02614	-.00343

PUN NO. 113/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-11.240	-.00401	375.66732	-.34687	.24085	.14350	-.00001	.00201	-.00061	-.25327	.30384
3.900	-9.103	-.00699	375.73147	-.26558	.23037	.12217	-.00007	.00171	.00060	-.24545	.27316
3.900	-6.992	-.00436	375.59138	-.19371	.22152	.10738	-.00007	.00199	-.00047	-.20699	.24257
3.900	-4.850	-.00615	375.55930	-.17859	.21057	.08690	.00005	.00133	.00070	-.16010	.22514
3.900	-2.729	-.00794	375.72345	-.12183	.20029	.06593	.00025	.00057	.00186	-.11219	.20627
3.900	-.659	-.06453	375.87582	-.08614	.19205	.04741	.00093	-.00172	.00525	-.06593	.19283
3.900	1.475	-.00722	375.69138	-.01598	.18623	.03210	.00073	-.00062	.00300	-.02477	.18253
3.900	3.595	-.00572	375.72345	.03372	.18062	.01282	.00075	-.00031	.00190	.02235	.18237
3.900	5.710	-.00360	375.70742	.05027	.17661	-.00801	.00017	.00143	.00076	.07223	.18431
3.900	7.820	-.00344	375.65930	.14239	.17479	-.02875	.00026	.00038	.00075	.11729	.19253
3.900	9.914	-.00147	375.73949	.19456	.17240	-.04517	.00043	-.00023	.00070	.16198	.20332
GRADIENT		.00010	.00490	.02496	-.00354	-.00863	.00005	-.00012	.00017	.02144	-.00003

LRC UPWT 1056/1073 1A42A/B T1P101

(R06005) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 117/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-10.392	-.00167	291.29493	-.35449	.22975	.12240	.00032	-.00007	.00070	-.25005	.20091
4.630	-8.326	-.00768	291.29493	-.25649	.22429	.10652	.00032	.00080	.00233	-.22131	.29956
4.630	-6.271	-.00567	291.29493	-.21152	.21282	.09420	.00010	.00142	.00296	-.18701	.23465
4.630	-4.124	-.00313	291.29493	-.15716	.20184	.07335	.00021	.00040	.00088	-.14224	.21261
4.630	-2.080	-.00362	291.29493	-.10694	.19055	.05565	.00022	.00056	.00093	-.09995	.19430
4.630	.016	-.00349	291.29493	-.05284	.18088	.03723	.00022	.00048	.00097	-.05289	.18037
4.630	2.084	-.00337	291.29493	-.00258	.17333	.02077	.00023	.00039	.00100	-.00888	.17312
4.630	4.182	-.00207	291.29493	.04400	.16684	.00743	.00024	-.00019	.00102	.03172	.16561
4.630	6.253	-.00135	291.29493	.09530	.16233	-.00829	.00047	-.00049	.00101	.07208	.17120
4.630	8.324	-.00529	291.29493	.13838	.15829	-.02549	.00024	.00263	-.00022	.11246	.17765
4.630	10.410	-.00110	291.29493	.18279	.15495	-.03925	.00059	-.00061	.00104	.15178	.18543
4.630	GRADIENT	.00011	-.00000	.02439	-.00420	-.00802	.00000	-.00007	.00002	.02113	-.00515

LRC UPWT 1056/1073 1A42A/B T1P101

(R08006) (01 MAR 74)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 24/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
1.700	-1.526	5.75534	603.45820	-10500	.30702	.07557	-.04413	.08799	-.23590	-.09678	.30971
1.700	-4.11	5.75208	603.41722	-.05668	.30560	.05094	-.04259	.08393	-.23162	-.05449	.30600
1.700	1.788	5.75241	603.49919	.03661	.30287	.00286	-.04044	.08055	-.22832	.02714	.30386
1.700	4.016	5.74768	603.58116	.13824	.29725	-.05078	-.03773	.07527	-.22209	.11709	.30620
1.700	6.226	5.74689	603.54017	.23191	.29180	-.09757	-.03484	.06933	-.21606	.19890	.31523
1.700	8.454	5.75797	603.86805	.32863	.28189	-.14510	-.03399	.07014	-.21903	.28361	.32714
1.700	10.699	5.76612	603.86805	.42587	.27734	-.19020	-.03169	.06689	-.21747	.36698	.35159
GRADIENT		-.00118	.02572	.04376	-.00173	-.02273	.00113	-.00212	.00235	.03847	-.00057

RUN NO. 22/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-6.381	5.73955	594.93007	-.30120	.28732	.16303	-.04557	.09571	-.24283	-.26741	.31901
2.000	-4.231	5.72985	594.67957	-.20665	.28647	.11781	-.04375	.09025	-.23547	-.18495	.30093
2.000	-2.039	5.71895	595.28792	-.12203	.28684	.07669	-.04106	.08301	-.22590	-.11175	.29100
2.000	.166	5.71157	595.14478	-.03549	.28312	.03738	-.03846	.07959	-.22052	-.03631	.28301
2.000	2.363	5.70537	595.03742	.04930	.27696	-.00404	-.03570	.07449	-.21471	.03784	.27875
2.000	4.577	5.69869	595.28792	.13938	.26913	-.04773	-.03319	.07041	-.20922	.11745	.27940
2.000	6.786	5.70125	595.03742	.22314	.26353	-.08565	-.03072	.06619	-.20563	.19043	.28805
2.000	9.004	5.71128	595.35949	.30957	.25876	-.12320	-.02953	.06387	-.20532	.26526	.30402
2.000	11.231	5.71944	595.35949	.39664	.25541	-.15912	-.02710	.05865	-.20183	.33929	.32777
GRADIENT		-.00345	.04385	.03921	-.00202	-.01879	.00120	-.00219	.00289	.03426	-.00251

RUN NO. 18/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.923	5.68661	543.66347	-.42552	.27957	.20518	-.04232	.10090	-.24596	-.37098	.34871
2.500	-8.341	5.66919	543.66347	-.38026	.27564	.17780	-.04207	.09534	-.24052	-.31646	.32499
2.500	-6.086	5.63189	543.66347	-.28775	.26827	.13836	-.04004	.08846	-.22526	-.23780	.29515
2.500	-3.972	5.62305	543.66347	-.19048	.26400	.10428	-.03913	.08433	-.21917	-.17174	.27656
2.500	-1.783	5.61927	543.66347	-.11224	.25892	.07063	-.03697	.08084	-.21485	-.15413	.26229
2.500	.385	5.59803	543.66347	-.03669	.25260	.03770	-.03441	.07397	-.20324	-.03839	.25235
2.500	2.359	5.59946	543.66347	.03782	.24483	.00434	-.03198	.07054	-.20016	.02685	.24528
2.500	4.748	5.58380	543.66347	.12127	.23775	-.03310	-.02995	.06378	-.19303	.02117	.24697
2.500	6.933	5.58797	543.66347	.19754	.23344	-.06513	-.02821	.06277	-.18985	.16791	.25538
2.500	9.119	5.58097	544.53406	.27604	.22931	-.09715	-.02671	.05769	-.18304	.23620	.27116
2.500	11.296	5.58963	544.20119	.34815	.22598	-.12438	-.02538	.05232	-.17975	.29715	.28380
GRADIENT		-.00405	.00000	.03951	-.00306	-.01566	.00107	-.00218	.00307	.03107	-.00345



TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 11 JUL 74

(R65006) (01 MAR 74)

LRC UPW/ 1056/1073 1A42A/B T1P101

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 20/ 0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-11.496	5.59118	494.16814	-43499	.27297	.20236	-.03995	.09891	-.24403	-.37186	.35419
2.860	-9.417	5.56762	494.89987	-36383	.26370	.17418	-.03890	.09314	-.23422	-.31378	.31968
2.860	-7.194	5.53477	494.57252	-27942	.25435	.13851	-.03735	.08781	-.21889	-.24537	.28734
2.860	-5.102	5.52541	494.14888	-20719	.24663	.10743	-.03677	.08402	-.21291	-.18443	.26408
2.860	-2.967	5.51370	494.72657	-13849	.23925	.07866	-.03514	.07889	-.20476	-.12592	.24610
2.860	-.804	5.49719	494.84210	-.06782	.23173	.04903	-.03301	.07373	-.19552	-.06456	.23266
2.860	1.337	5.49751	494.97689	-.00091	.22451	.02127	-.03176	.07126	-.19311	-.00615	.22443
2.860	3.473	5.49563	494.57252	.05712	.21745	-.00386	-.03023	.06706	-.18858	.04384	.22651
2.860	5.643	5.49064	494.76508	.13614	.21116	-.03775	-.02887	.06283	-.18310	.11472	.22352
2.860	7.788	5.49419	494.89987	.20796	.20796	-.06777	-.02793	.05966	-.18080	.17786	.23423
2.860	9.948	5.49309	495.09243	.27574	.2.441	-.09381	-.02661	.05461	-.17548	.23829	.24897
GRADIENT		-.00252	-.01512	.03047	-.00338	-.01283	.00074	-.00177	.00238	.02646	-.00396

RUN NO. 114/ 0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-11.237	5.42625	375.98007	-34839	.24501	.14247	-.02812	.07570	-.19424	-.29386	.36830
3.900	-9.111	5.41949	375.94800	-29023	.23372	.12296	-.02746	.07317	-.18985	-.24924	.27870
3.900	-7.001	5.41207	376.02017	-23783	.22577	.10678	-.02679	.07079	-.18535	-.20853	.25308
3.900	-4.888	5.40521	375.96404	-17839	.21481	.08514	-.02667	.06713	-.17990	-.15944	.22923
3.900	-2.737	5.39516	376.06829	-12233	.20545	.06474	-.02625	.06323	-.17319	-.11231	.21110
3.900	-.653	5.38760	376.08433	-.06906	.19753	.04583	-.02566	.05974	-.16765	-.06680	.19831
3.900	1.475	5.38139	376.01215	-.01273	.19114	.02572	-.02510	.05704	-.16328	-.01764	.19074
3.900	3.578	5.37309	375.96404	.04354	.18500	.00453	-.02380	.05261	-.15668	.03191	.18735
3.900	5.711	5.36927	376.18056	.09965	.18077	-.01610	-.02314	.04913	-.15226	.08116	.18979
3.900	7.811	5.36680	376.02819	.15723	.17763	-.03794	-.02296	.04648	-.14912	.13163	.19735
3.900	9.926	5.36504	375.96404	.21194	.17402	-.05792	-.02305	.04475	-.14701	.17877	.20795
GRADIENT		-.00369	-.01264	.02615	-.00349	-.00946	.00033	-.00166	.00266	.02256	-.00492

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 10

LRC UPWT 1056/1073 1A42A/B T1P101

(R05006) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.1000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 110/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-10.410	5.33731	291.29493	-.30719	.23137	.12123	-.02324	.06924	-.18143	-.26032	.26307
4.630	-8.334	5.33113	291.29493	-.25694	.22766	.10743	-.02451	.06718	-.17708	-.22321	.26278
4.630	-6.253	5.32867	291.29493	-.21047	.21690	.09293	-.02402	.06513	-.17423	-.18360	.23854
4.630	-4.160	5.32362	291.29493	-.15309	.20350	.07047	-.02386	.06115	-.16857	-.13777	.21606
4.630	-2.072	5.31732	291.29493	-.09965	.19409	.05120	-.02346	.05763	-.16283	-.09257	.19756
4.630	.014	5.30845	291.29493	-.05004	.18410	.03459	-.02281	.05357	-.15557	-.09509	.12408
4.630	2.103	5.30166	290.87581	.00344	.17676	.01597	-.02268	.05183	-.15140	-.09305	.17677
4.630	4.193	5.29592	291.29493	.05319	.17004	-.00076	-.02190	.04798	-.14544	.04062	.17347
4.630	6.262	5.29209	291.29493	.09922	.16487	-.01464	-.02139	.04494	-.14113	.08364	.17471
4.630	8.395	5.28895	291.29493	.15060	.16011	-.03450	-.02090	.04171	-.13690	.12575	.16028
4.630	10.443	5.28628	291.29493	.19845	.15457	-.05032	-.02040	.03820	-.13265	.16715	.16738
GRADIENT		-.00340	-.02007	.02469	-.00423	-.00851	.00023	-.00154	.00276	.02137	-.00507



TABLE 1. RELATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 12 JUL 74

(R06007) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

RUN NO. 37/0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-4.278	-0.1736	357.49482	-3.0058	.37605	.11388	.00162	-.00470	.01062	-.27169	.39743
2.000	-2.052	-0.1500	357.70953	-1.7425	.37641	.07091	.00144	-.00435	.00946	-.16566	.38241
2.000	-1.155	-0.1744	356.20655	-.05942	.37324	.03496	.00173	-.00415	.01013	-.06043	.37307
2.000	2.347	-0.1732	357.10118	.05534	.36758	-.00389	.00140	-.00360	.00904	.04024	.36954
2.000	4.543	-0.1988	356.81490	.17334	.36198	-.04901	.00150	-.00360	.01543	.14412	.37458
2.000	6.746	-0.2007	356.95804	.29418	.35912	-.09459	.00117	-.00245	.00935	.24997	.39119
2.000	8.961	-0.2581	357.88846	.42111	.35920	-.13384	.00108	-.00131	.01319	.36002	.42041
2.000	11.204	-0.2643	357.63796	.53927	.35843	-.16425	-.00056	.00213	.00700	.45935	.45659
GRADIENT		-.00033	-.00946	.05342	-.00168	-.01817	-.00001	.00016	-.00004	.04655	-.00266

RUN NO. 29/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.265	-0.0638	543.50983	-58360	.35109	.21883	.00058	-.00291	.00430	-.51946	.44548
2.500	-6.809	-0.1804	543.48422	-.43125	.34234	.16199	.00048	-.00279	.00683	-.36763	.39105
2.500	-4.534	-0.2050	543.94513	-.23546	.33552	.11221	.00050	-.00286	.00746	-.26501	.35791
2.500	-0.184	-0.2665	544.02195	-.17491	.33074	.07485	.00104	-.00378	.01976	-.16217	.33717
2.500	.099	-0.3193	543.94513	-.07372	.32682	.04559	.00132	-.00430	.01147	-.07128	.32570
2.500	2.395	-0.3388	544.43164	.03169	.32026	.01691	.00173	-.00487	.01316	-.03227	.32131
2.500	4.697	-0.3267	544.27801	.14194	.31525	-.01939	.00175	-.00463	.01197	.11565	.32582
2.500	7.029	-0.0466	544.61088	.26695	.31303	-.06158	.00173	-.00469	.01383	.22554	.34324
2.500	9.337	-0.3420	544.66209	.33821	.31102	-.11098	.00165	-.00384	.01154	.33951	.37102
2.500	11.719	-0.3878	544.22579	.52471	.30565	-.14767	.00154	-.00256	.01131	.45169	.48585
GRADIENT		-.00150	.04664	.04703	-.00221	-.01394	.00013	-.00020	.00004	.04123	-.00348

RUN NO. 35/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-12.279	-0.1055	495.03466	-.69193	.34043	.26336	.00028	-.00111	.00369	-.60371	.47979
2.860	-10.682	-0.1647	494.89987	-.55013	.32891	.20983	.00059	-.00319	.00723	-.42350	.42186
2.860	-7.728	-0.1596	494.93838	-.43093	.31770	.16230	.00046	-.00270	.00562	-.31429	.37275
2.860	-5.504	-0.2132	494.47624	-.31339	.30850	.12074	.00048	-.00263	.00789	-.24234	.33714
2.860	-3.210	-0.2364	494.61103	-.19387	.30183	.08296	.00053	-.00264	.00848	-.16265	.31255
2.860	-.971	-0.2810	494.80359	-.10547	.29729	.05446	.00086	-.00326	.01021	-.11142	.28573
2.860	1.260	-0.3133	494.53838	-.01868	.29119	.03327	.00092	-.00303	.01078	-.00557	.29170
2.860	3.483	-0.2758	494.82285	.06824	.28448	.00653	.00084	-.00253	.00936	.00133	.28817
2.860	5.713	-0.02949	494.91913	.16988	.27965	-.02611	.00127	-.00257	.00989	.24119	.30957
2.860	7.974	-0.3764	494.65880	.28701	.27605	-.06874	.00173	-.00352	.01251	.24150	.31255
2.860	10.285	-0.5379	494.97689	.40753	.27168	-.11351	.00226	-.00354	.01281	.35248	.34127
GRADIENT		-.00568	.03457	.03994	-.00261	-.01123	.00004	.00002	.00014	.01177	-.00355

(R86C07) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 RUDDER = .000

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO. 119/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-11.812	-.00330	375.98007	-.54705	.29711	.19394	-.00056	.00500	-.00108	-.47465	.40280
3.900	-9.611	-.00536	375.92394	-.45556	.28579	.16604	.00022	.00093	.00224	-.40145	.35784
3.900	-7.414	-.00450	375.99611	-.36659	.27321	.13962	.00016	.00067	.00119	-.32828	.31823
3.900	-5.202	-.00507	376.00413	-.27312	.26004	.10855	.00033	-.00086	.00234	-.24842	.29373
3.900	-3.013	-.00611	375.92394	-.18914	.25031	.08310	.00060	-.00066	.00249	-.17572	.25991
3.900	-.828	-.00448	375.83176	-.10798	.24329	.05953	.00025	.00195	.00049	-.10445	.24483
3.900	1.351	-.00958	375.83573	-.03282	.23708	.04132	.00071	.00092	.00415	-.03840	.23624
3.900	3.517	-.01197	376.02819	.04199	.23246	.02000	.00058	.00043	.00342	.02765	.23460
3.900	5.690	-.01179	376.14046	.12245	.22794	-.00665	.00059	.00031	.00547	.09924	.23896
3.900	7.872	-.01294	376.03621	.21035	.22365	-.03601	.00080	-.00059	.00666	.17774	.25035
3.900	10.081	-.01062	375.76355	.30742	.21944	-.07064	.00061	.00104	.00447	.26426	.26986
GRADIENT		-.00104	.01358	.03531	-.00275	-.00953	.00002	.00010	.00057	.03156	-.00389

RUN NO. 124/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-10.957	-.00548	290.87020	-.48927	.28491	.17373	-.00003	.00343	.00200	-.42620	.37271
4.630	-8.805	-.00604	290.45109	-.40264	.27476	.14571	.00034	.00076	.00337	-.35584	.33315
4.630	-6.660	-.00401	290.87020	-.32570	.26046	.12445	.00046	.00003	.00193	-.29329	.23648
4.630	-4.532	-.00266	290.87020	-.24355	.24861	.09865	.00078	-.00097	.00193	-.22314	.26707
4.630	-2.388	-.00431	290.45109	-.16620	.23889	.07447	.00097	-.00039	.00208	-.15610	.24551
4.630	-.235	-.00478	290.87020	-.09208	.22861	.05472	.00078	.00084	.00234	-.09106	.22902
4.630	1.870	-.00526	290.87020	-.02185	.22184	.03843	.00071	.00229	.00265	-.02908	.22100
4.630	4.001	-.00510	290.87020	.05158	.21570	.01587	.00033	.00222	.00273	.03641	.21277
4.630	6.117	-.00568	290.87020	.12473	.20994	-.00705	.00030	.00085	.00422	.10165	.22204
4.630	8.262	-.00597	290.87020	.20753	.20422	-.03476	-.00027	.00245	.00289	.17603	.23193
4.630	10.397	-.00710	290.87020	.29804	.19883	-.06710	.00044	.00136	.00435	.25726	.24935
GRADIENT		-.00027	.01961	.03445	-.00389	-.00945	-.00005	.00042	.00010	.03030	-.00569

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

(R06008) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 30/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-4.282	5.40422	357.45903	-.30751	.37732	.11811	-.02733	.08751	-.21772	-.27848	.39923
2.000	-2.045	5.39263	356.70754	-.17683	.37545	.07168	-.02842	.08844	-.21491	-.16332	.38152
2.000	.151	5.38153	356.63597	-.05941	.37131	.03296	-.02846	.08828	-.21095	-.06038	.37116
2.000	2.346	5.37618	357.28011	.05772	.36660	-.00683	-.02901	.08779	-.20839	.04266	.36866
2.000	4.590	5.36998	357.17275	.17545	.36229	-.04910	-.02975	.08532	-.20384	.14610	.37507
2.000	6.744	5.37784	357.06540	.29308	.35883	-.09249	-.03199	.08496	-.20622	.24891	.39077
2.000	8.969	5.38279	356.99382	.42082	.35565	-.13480	-.03339	.08224	-.20525	.36022	.41691
2.000	11.206	5.38757	357.20854	.54425	.35163	-.16909	-.03253	.07641	-.20104	.46554	.45069
GRADIENT		-.00385	-.00033	.05443	-.00176	-.01872	-.00025	-.00023	.00155	.04784	-.00278

RUN NO. 31/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.268	5.71018	544.45725	-.59545	.35626	.22919	-.02824	.09455	-.24878	-.53029	.44752
2.500	-6.817	5.66614	543.99634	-.43333	.34693	.16354	-.02599	.09076	-.23519	-.38909	.39591
2.500	-4.541	5.63800	543.66347	-.30866	.33833	.12256	-.02539	.08581	-.22402	-.28090	.36171
2.500	-2.181	5.59748	544.48285	-.17571	.33109	.07572	-.02577	.08199	-.21087	-.16298	.33753
2.500	.115	5.58961	544.25240	-.06271	.32602	.03936	-.02640	.08390	-.21103	-.06337	.32589
2.500	2.409	5.57695	543.99634	.04683	.31927	.00611	-.02620	.08257	-.20691	.03337	.32096
2.500	4.720	5.56628	543.99634	.16457	.31459	-.03974	-.02662	.08026	-.20221	.13812	.32706
2.500	7.035	5.57012	544.63649	.28721	.31018	-.07952	-.02900	.07798	-.20067	.24705	.34302
2.500	9.366	5.57495	544.27801	.41324	.30568	-.12500	-.03149	.07508	-.19896	.35799	.35885
2.500	11.745	5.56797	544.17558	.55042	.30049	-.16703	-.03357	.07119	-.19355	.47173	.40824
GRADIENT		-.00711	.00818	.05059	-.00257	-.01706	-.00013	-.00046	.00206	.04476	-.00372

RUN NO. 34/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-12.271	5.64652	494.91913	-.69886	.34558	.26125	-.03197	.10240	-.25627	-.59967	.48409
2.860	-10.077	5.61671	494.59177	-.57111	.33492	.21914	-.02920	.09624	-.24286	-.50370	.42968
2.860	-7.706	5.58937	494.55326	-.43348	.32265	.16757	-.02653	.09288	-.23274	-.38630	.37786
2.860	-5.538	5.57193	494.80359	-.32102	.31375	.12345	-.02531	.08847	-.22397	-.28925	.34327
2.860	-3.264	5.54995	494.41847	-.21108	.30609	.08655	-.02506	.08279	-.21297	-.19331	.31761
2.860	-1.264	5.52941	494.91913	-.10824	.29760	.05548	-.02534	.08003	-.20500	-.10112	.29937
2.860	1.264	5.51472	494.59177	-.00998	.29062	.02759	-.02576	.07900	-.20041	-.01639	.29032
2.860	3.509	5.51981	494.78433	.09122	.28531	-.00734	-.02587	.07767	-.20030	.07359	.29036
2.860	5.751	5.51675	494.95764	.19922	.28068	-.04818	-.02667	.07343	-.19530	.17009	.29923
2.860	8.047	5.50466	494.80359	.32261	.27648	-.09189	-.02791	.06935	-.18828	.28572	.31892
2.860	10.317	5.50280	494.63028	.43372	.27222	-.13041	-.02932	.06651	-.18504	.37795	.34549
GRADIENT		-.00467	.03434	.04446	-.00307	-.01372	-.00013	-.00073	.00189	.03924	-.00403

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 22

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

(R06008) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 120/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-11.830	5.46649	376.04423	-5.5586	.30396	.19879	-.02490	.08877	-.21616	-.48174	.41146
3.900	-9.622	5.45040	376.16452	-.46161	.29160	.16085	-.02296	.08232	-.20626	-.40637	.36466
3.900	-7.428	5.44016	376.02819	-.37612	.28020	.14453	-.02178	.07877	-.20092	-.33674	.32648
3.900	-5.225	5.43102	376.06027	-.28568	.26715	.11605	-.02035	.07429	-.19441	-.26017	.29206
3.900	-3.033	5.41747	376.14848	-.19665	.25683	.08754	-.01963	.06926	-.18559	-.18279	.26588
3.900	-.833	5.40000	376.10838	-.11410	.24813	.06359	-.01962	.06390	-.17442	-.11048	.24976
3.900	1.343	5.38585	375.84374	-.03427	.24130	.04200	-.02026	.06129	-.16659	-.03592	.24043
3.900	3.518	5.36167	375.93196	.04847	.23580	.01458	-.02104	.05806	-.16225	.03391	.23833
3.900	5.709	5.37796	376.05225	.13981	.23163	-.01800	-.02120	.05344	-.15685	.11608	.24439
3.900	7.899	5.37299	376.06027	.22977	.22795	-.04858	-.02152	.04918	-.15142	.19626	.25737
3.900	10.104	5.37412	375.98007	.32874	.22407	-.08399	-.02307	.04897	-.15159	.28434	.27826
GRADIENT		-.00557	-.04189	.03734	-.00320	-.01102	-.00022	-.00166	.00357	.03301	-.00436

RUN NO. 125/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-10.964	5.33590	290.87020	-.49323	.29097	.17634	-.02136	.08174	-.19713	-.43084	.37985
4.630	-8.820	5.32833	290.45109	-.41256	.28145	.15241	-.01972	.07455	-.18902	-.36453	.34138
4.630	-6.675	5.32145	290.45109	-.33678	.26964	.13176	-.01852	.06846	-.18200	-.30315	.30695
4.630	-4.540	5.31592	290.45109	-.25492	.25732	.10551	-.01738	.06431	-.17637	-.23375	.27669
4.630	-2.393	5.30670	290.87020	-.17014	.24506	.07837	-.01701	.05042	-.16894	-.15975	.25196
4.630	-.265	5.29417	290.87020	-.09390	.23407	.05630	-.01725	.05599	-.15869	-.09281	.23450
4.630	1.875	5.28562	290.87020	-.01762	.22486	.03470	-.01837	.05478	-.15270	-.02497	.22416
4.630	4.001	5.27795	290.45109	.05863	.21831	.00954	-.01861	.04887	-.14432	.04326	.22187
4.630	6.130	5.27549	290.45109	.13898	.21254	-.01766	-.01882	.04535	-.14012	.11549	.22617
4.630	8.267	5.27227	290.45109	.22097	.20862	-.04429	-.01346	.04055	-.13445	.18868	.23823
4.630	10.412	5.26859	290.45109	.31107	.20415	-.07422	-.01914	.03748	-.13017	.26906	.25731
GRADIENT		-.00454	.00009	.03652	-.00460	-.01104	-.00019	-.00171	.00376	.03226	-.00644



DATE 12 JUL 74

TAGULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 23

LRC UPWT 1056/1073 1A42A/B Y1P1S1P201

(R06009) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 %SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 39/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-6.503	.14152	357.20854	-.06416	.37503	.03539	.03925	-.11920	.28459	-.06508	.37487
2.000	-4.319	.14925	357.16639	-.06012	.37599	.03545	.02516	-.07739	.18622	-.06110	.37583
2.000	-2.166	.15441	357.62736	-.05930	.37521	.03648	.01240	-.03858	.09397	-.06031	.37505
2.000	-1.111	.15859	357.45903	-.05932	.37427	.03628	.00633	-.01975	.05052	-.06036	.37410
2.000	-.017	.15407	357.43482	-.06181	.37318	.03839	.00127	-.00341	.00933	-.06281	.37301
2.000	1.037	.14968	357.42325	-.06465	.37231	.03940	-.00355	.01307	-.03095	-.06583	.37334
2.000	2.093	.15688	357.53060	-.05900	.37326	.03583	-.00946	.03163	-.07447	-.06002	.37309
2.000	4.293	.15571	357.53060	-.05867	.37323	.03582	-.02204	.06970	-.16594	-.05969	.37307
2.000	6.436	.14026	357.45903	-.05946	.37209	.03176	-.03546	.10824	-.25921	-.06037	.37194
2.000	8.632	.14219	357.38746	-.05632	.37228	.02771	-.04969	.15069	-.36192	-.05725	.37214
GRADIENT		.00048	-.00867	.00002	-.00037	.00007	-.00537	.01688	-.04050	.00002	-.00037

RUN NO. 30/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-6.818	.08834	543.22817	-.07126	.33147	.04490	.03551	-.11304	.28920	-.07177	.33136
2.500	-4.503	.09378	541.12849	-.07254	.33035	.04746	.02314	-.07707	.18668	-.07308	.33023
2.500	-2.285	.10640	543.58665	-.06920	.32818	.04676	.01153	-.140	.09619	-.06981	.32805
2.500	-1.104	.10263	544.45725	-.06928	.32828	.04816	.00596	-.01952	.05099	-.06987	.32816
2.500	-.024	.12227	543.76599	-.06784	.32551	.04783	.00093	-.00376	.00922	-.06853	.32536
2.500	1.082	.11124	544.35482	-.07064	.32644	.04924	-.00381	.01266	-.03011	-.07127	.32630
2.500	2.150	.13517	544.40604	-.06207	.32699	.04521	-.00869	.02799	-.06896	-.06285	.32684
2.500	4.426	.15655	544.61088	-.05737	.32775	.04250	-.01998	.06341	-.16086	-.05826	.32759
2.500	5.598	.14762	544.12437	-.05901	.32632	.04353	-.02639	.08381	-.21290	-.06443	.32616
2.500	6.675	.16344	543.66347	-.05901	.32732	.04100	-.03165	.10108	-.25410	-.05994	.32715
2.500	7.843	.13270	543.76589	-.06732	.32919	.04309	-.03906	.12371	-.30978	-.06809	.32903
GRADIENT		.00678	.33167	.00157	-.00031	-.00047	-.00476	.01517	-.03854	.00153	-.00032

RUN NO. 35/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-6.696	-1.00095	494.39921	-.10695	.30252	.05364	.03177	-.10440	.26695	-.10165	.30434
2.860	-4.440	-.99504	494.59177	-.10610	.30023	.05337	.02052	-.06675	.17535	-.10087	.30203
2.860	-2.257	-.97682	494.68805	-.10154	.29888	.05248	.01013	-.03381	.09168	-.09643	.30057
2.860	-1.149	-.97484	494.68805	-.10005	.29797	.05296	.00516	-.01776	.04946	-.09497	.29963
2.860	-.024	-.96754	494.97689	-.10071	.29662	.05376	.00067	-.00235	.00841	-.09569	.29828
2.860	1.057	-.98084	494.80359	-.10400	.29704	.05569	-.00391	.01268	-.03070	-.09890	.29878
2.860	2.162	-.97916	495.03466	-.10295	.29790	.05537	-.00877	.02828	-.07166	-.09785	.29961
2.860	4.408	-.99417	494.80359	-.10536	.29818	.05412	-.01937	.06193	-.15988	-.10017	.29996
2.860	6.626	-1.00709	495.09243	-.10793	.30009	.05362	-.03076	.09816	-.24944	-.10264	.30194
2.860	8.869	-1.01169	494.59177	-.11178	.30453	.05495	-.04309	.13964	-.35050	-.10638	.30646
GRADIENT		-.00017	.03561	-.00008	-.00024	.00025	-.00445	.01441	-.03764	-.00009	-.00024

LRC UPWT 1056/1073 IA42A/B T1P1S1P201

(R6009) (01 MAR 74)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 121/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-6.407	-.84082	376.06027	-.10911	.25033	.05041	.02605	-.08070	.21978	-.10543	.25191
3.900	-4.269	-.83466	376.01215	-.10545	.24731	.05730	.01678	-.05128	.14292	-.10183	.24882
3.900	-2.137	-.82373	375.88364	-.10513	.24404	.05795	.00819	-.02475	.07054	-.10161	.24552
3.900	-1.079	-.82411	376.08433	-.10786	.24342	.06009	.00441	-.01207	.03605	-.10435	.24495
3.900	-.012	-.82459	376.02017	-.10810	.24322	.06011	.00112	-.00058	.00502	-.10459	.24475
3.900	1.950	-.82672	376.00413	-.10800	.24386	.06010	-.00278	.01232	-.03064	-.10447	.24539
3.900	2.147	-.83262	375.93196	-.11103	.24451	.06224	-.00684	.02425	-.06521	-.10747	.24610
3.900	4.348	-.83373	375.99611	-.11113	.24723	.06187	-.01556	.05122	-.13881	-.10752	.24822
3.900	6.466	-.84812	375.95602	-.11722	.24955	.06548	-.02415	.07833	-.21119	-.11352	.25126
3.900	8.648	-.85520	376.02819	-.12013	.25518	.06679	-.03363	.10987	-.29024	-.11630	.25694
GRADIENT		-.00038	-.00109	-.00077	.00003	.00059	-.00369	.01179	-.03244	-.00077	.00004

RUN NO. 126/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-6.356	-.25651	290.87020	-.09035	.23587	.05099	.02355	-.06998	.20024	-.08930	.23627
4.630	-4.223	-.25527	290.45109	-.08851	.23326	.05064	.01522	-.04518	.13201	-.08747	.23555
4.630	-2.095	-.25147	290.87020	-.08627	.22904	.05101	.00744	-.02149	.06484	-.08527	.22942
4.630	-1.037	-.25253	290.45109	-.08735	.22916	.05160	.00386	-.00969	.03215	-.08634	.22954
4.630	-.002	-.25781	290.87020	-.09183	.22906	.05526	.00075	.00111	.00084	-.09079	.22947
4.630	1.034	-.25351	290.87020	-.09020	.22872	.05329	-.00222	.01119	-.02901	-.08819	.22911
4.630	2.089	-.25557	290.45109	-.09054	.22918	.05476	-.00555	.02103	-.03894	-.08951	.22958
4.630	4.223	-.25608	290.45109	-.09244	.23209	.05689	-.01330	.04444	-.12454	-.09180	.23250
4.630	6.346	-.25813	290.45109	-.09496	.23669	.05749	-.02185	.06969	-.19616	-.09389	.23741
4.630	8.464	-.25405	290.45109	-.09311	.24071	.05642	-.03075	.09936	-.27044	-.09205	.24112
GRADIENT		-.00028	-.00944	-.00063	-.00011	.00077	-.00330	.01050	-.03017	-.00062	-.00011



TABLED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 12 JUL 74

(R06010) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = 5.000 RUDDER = -20.000

RUN NO. 43/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-4.267	5.3775	356.67176	-3.1212	.38404	.12432	-.03396	.10247	-.23028	-.28268	.40619
2.000	-2.032	5.36947	337.60217	-1.8029	.38201	.07701	-.03316	.10431	-.22891	-.16650	.38822
2.000	.157	5.35724	334.27414	-.06051	.37754	.03748	-.03483	.10303	-.22458	-.06154	.37737
2.000	2.361	5.34753	333.45108	.05742	.37252	-.00357	-.03495	.10183	-.22029	.04203	.37457
2.000	4.555	5.34788	337.96003	.17440	.36838	-.04481	-.03367	.10005	-.21714	.14459	.38106
2.000	6.739	5.35556	338.92623	.29400	.36441	-.08867	-.03750	.09864	-.21806	.24907	.39647
2.000	8.976	5.35659	337.74532	.41936	.36125	-.13018	-.03830	.09363	-.21452	.35786	.42226
2.000	11.210	5.36152	336.77911	.54408	.35781	-.16557	-.03799	.08941	-.21167	.46414	.45676
GRADIENT		-.00370	-.07212	.03489	-.00185	-.01899	-.00015	-.00033	.00158	.04820	-.00290

RUN NO. 41/ 0 RN/L = 1.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-8.585	5.45328	365.85642	-.55703	.35741	.21859	-.03294	.10486	-.24839	-.49743	.43656
2.500	-6.306	5.43642	365.29310	-.42473	.34916	.16967	-.03128	.10119	-.23929	-.38381	.39370
2.500	-4.149	5.41280	365.77961	-.27937	.34122	.11221	-.03015	.09448	-.22452	-.25395	.36054
2.500	-1.967	5.39806	366.08688	-.17605	.33595	.08233	-.03032	.09142	-.21642	-.16442	.34179
2.500	.269	5.38563	366.26612	-.03324	.32889	.03978	-.03066	.09156	-.21232	-.05478	.32864
2.500	2.434	5.37841	366.13809	.04444	.32278	.01008	-.03023	.09032	-.20870	.03059	.32438
2.500	4.632	5.37690	366.34294	.14275	.31825	-.02167	-.03087	.08883	-.20665	.11658	.32874
2.500	6.832	5.37701	366.26612	.27708	.31453	-.07279	-.03258	.08602	-.20393	.23758	.34534
2.500	9.060	5.37730	365.06264	.39325	.30936	-.11406	-.03395	.08267	-.20109	.33963	.36743
2.500	11.284	5.37004	364.72977	.51513	.30682	-.15323	-.03360	.07964	-.19574	.44513	.40169
GRADIENT		-.00416	.05360	.04844	-.00269	-.01547	-.00006	-.00036	.00198	.04259	-.00369

RUN NO. 43/ 0 RN/L = 1.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-11.536	5.38043	319.88159	-.64539	.34771	.24939	-.03602	.11129	-.25489	-.56282	.46976
2.860	-9.459	5.36600	320.28596	-.53304	.33732	.20530	-.03297	.10517	-.24309	-.47036	.42034
2.860	-7.225	5.35247	319.76605	-.40220	.32557	.15331	-.03065	.10075	-.23373	-.35807	.37357
2.860	-5.133	5.34007	319.65051	-.29790	.31665	.11662	-.02890	.09494	-.22324	-.26838	.34203
2.860	-2.928	5.32437	319.70828	-.19082	.30933	.08208	-.02878	.09008	-.21236	-.17477	.31867
2.860	-.803	5.31570	319.63126	-.09881	.30153	.05833	-.02863	.08645	-.20345	-.09457	.30289
2.860	1.352	5.30654	319.72754	-.00780	.29448	.03016	-.02859	.08385	-.19931	-.01475	.29421
2.860	3.498	5.30296	319.70828	.08471	.28952	.00008	-.02890	.08207	-.19617	.06695	.29315
2.860	5.655	5.30016	319.74679	.18918	.28471	-.03878	-.02951	.07909	-.19212	.16021	.30197
2.860	7.807	5.29650	319.78531	.30012	.27978	-.08065	-.03028	.07546	-.18710	.25933	.31796
2.860	9.987	5.29807	319.55423	.40512	.27514	-.11703	-.03180	.07274	-.18509	.35521	.34192
GRADIENT		-.00342	.00453	.04281	-.00324	-.01279	-.00002	-.00124	.00255	.03756	-.00397

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

(R06010) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

RUN NO. 127/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-11.921	5.46764	375.93998	-.56289	.30884	.20658	-.03268	.10642	-.23261	-.48695	.41845
3.900	-9.621	5.45330	375.76355	-.46864	.29663	.17754	-.03002	.09824	-.22178	-.41247	.37078
3.900	-7.426	5.44131	375.50693	-.36323	.26427	.12555	-.02819	.09280	-.21426	-.34328	.33142
3.900	-5.227	5.42975	375.72345	-.28943	.27048	.12263	-.02610	.08785	-.20645	-.26359	.29572
3.900	-2.974	5.41720	375.88384	-.20026	.25978	.09401	-.02499	.08126	-.19649	-.18651	.26982
3.900	-.845	5.40086	375.97205	-.12051	.25086	.07053	-.02471	.07548	-.11679	-.11679	.25261
3.900	1.339	5.38331	375.82771	-.04064	.24417	.04851	-.02488	.07207	-.17823	-.04634	.24316
3.900	3.535	5.37904	376.00413	.04498	.23788	.01941	-.02509	.06710	-.16961	.03022	.24020
3.900	5.724	5.37649	375.95790	.13648	.23347	-.01382	-.02490	.06214	-.16434	.11251	.24592
3.900	7.909	5.37209	375.93998	.22658	.22945	-.04458	-.02495	.05768	-.15890	.19285	.25845
3.900	10.110	5.37172	375.92394	.32348	.22519	-.08050	-.02585	.05555	-.15684	.28089	.27883
GRADIENT		-.00598	.00998	.03757	-.00333	-.01132	-.00002	-.00211	.00413	.03319	-.00452

RUN NO. 129/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-10.952	5.34005	291.12155	-.50314	.29560	.18500	-.02853	.09693	-.21251	-.43782	.38580
4.630	-8.821	5.33422	291.12155	-.41983	.28524	.16004	-.02640	.08892	-.20416	-.37112	.34625
4.630	-6.660	5.32848	291.12155	-.34394	.27253	.13956	-.02451	.08233	-.19715	-.30991	.31057
4.630	-4.535	5.32219	291.12155	-.26227	.26025	.11283	-.02300	.07696	-.19011	-.24088	.28017
4.630	-2.394	5.31026	291.12155	-.17800	.24794	.08520	-.02182	.07116	-.18004	-.16749	.25516
4.630	-.245	5.29650	291.12155	-.10171	.23649	.06417	-.02204	.06722	-.16971	-.10070	.23632
4.630	1.880	5.28658	291.12155	-.02553	.22692	.04191	-.02298	.06439	-.16228	-.03296	.22536
4.630	3.987	5.28070	291.12155	.05055	.21966	.01544	-.02267	.05831	-.15377	.03515	.22265
4.630	6.148	5.27809	291.12155	.13082	.21370	-.01180	-.02217	.05332	-.14818	.10719	.22648
4.630	8.253	5.27605	291.12155	.20934	.20829	-.03653	-.02190	.04805	-.14256	.17728	.23618
4.630	10.394	5.27102	291.12155	.29884	.20506	-.06700	-.02219	.04400	-.13684	.25694	.25551
GRADIENT		-.00551	-.00000	.03650	-.00480	-.01117	-.00002	-.00204	.01424	.03221	-.00677

(R66011) (01 MAR 74)

LRC UPWT 1056/1073 IA42A/B TIP1S1P201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0130 SCALE

ALPHA = .000 RUDDER = -20.000

RUN NO. 46/ 0 RM/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-6.526	.14909	358.03160	-.05926	.37729	.03418	.03348	-.10537	.27170	-.06024	.37713
2.000	-4.325	.14862	358.05738	-.06099	.37925	.03788	.02024	-.06613	.17701	-.06190	.37910
2.000	-2.152	.15981	358.17474	-.05021	.37903	.03912	.00692	-.02609	.08328	-.06127	.37886
2.000	-.022	.14851	358.17474	-.06273	.37803	.04095	-.00430	.00969	-.00204	-.06371	.37787
2.000	2.091	.15334	358.05738	-.05975	.37839	.03905	-.01363	.04623	-.08818	-.06077	.37823
2.000	4.288	.16326	358.17474	-.05961	.37880	.03901	-.02822	.08424	-.17855	-.06069	.37863
2.000	6.439	.14942	358.31788	-.05712	.37810	.03397	-.04268	.12612	-.27728	-.05810	.37795
2.000	8.632	.14406	358.49581	-.05995	.37858	.03247	-.05577	.16428	-.37472	-.06080	.37843
GRADIENT		.00107	.00509	.00015	-.00007	.00010	-.00557	.01738	-.04111	.00014	-.00007

RUN NO. 42/ 0 RM/L = 1.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-6.503	.24389	365.54915	-.06308	.33138	.04137	.02811	-.09440	.25622	-.06449	.33111
2.500	-4.331	.26723	365.42112	-.06145	.33088	.04435	.01743	-.05937	.17004	-.06295	.33059
2.500	-2.167	.25508	365.57476	-.06574	.33015	.04742	.00590	-.02373	.07841	-.06721	.32985
2.500	-.027	.26325	365.60037	-.06535	.32927	.04921	-.00370	.00691	.00214	-.06686	.32896
2.500	2.122	.26907	365.29310	-.06435	.32983	.04893	-.01405	.04034	-.08542	-.06590	.32932
2.500	4.290	.27311	365.83203	-.05962	.32993	.04632	-.02478	.07348	-.16641	-.06019	.32965
2.500	6.427	.26033	365.90764	-.06174	.33090	.04482	-.03559	.10756	-.25190	-.06324	.33002
2.500	8.624	.25538	365.36991	-.05929	.33312	.04128	-.04861	.14823	-.35202	-.05977	.33256
GRADIENT		.00184	.02983	.00033	-.00010	.00025	-.00485	.01532	-.03886	.00032	-.00010

RUN NO. 44/ 0 RM/L = 1.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-6.447	-.00956	319.76605	-.09511	.30307	.05130	.02626	-.09044	.24678	-.09082	.30438
2.860	-4.249	-.01110	319.66977	-.09448	.30139	.05217	.01498	-.05317	.15592	-.09020	.30270
2.860	-2.141	-.07993	319.57349	-.09174	.30104	.05000	.00466	-.02069	.07339	-.08754	.30229
2.860	-.037	-.00670	319.66977	-.09509	.29939	.05426	-.00401	.00783	-.00064	-.09086	.30070
2.860	2.076	-.00058	319.74679	-.09534	.30041	.05571	-.01318	.03732	-.07856	-.09113	.30172
2.860	4.246	-.00460	319.59274	-.09599	.30125	.05568	-.02269	.06854	-.15835	-.09175	.30257
2.860	6.367	-.00471	319.66977	-.09627	.30226	.05620	-.03389	.10346	-.24555	-.09201	.30359
2.860	8.513	-.01705	319.63126	-.10338	.30751	.05722	-.04556	.14184	-.33949	-.09898	.30896
GRADIENT		.00055	.00082	-.00031	-.00004	.00060	-.00439	.01421	-.03680	-.00032	-.00004

LRC UPWT 1056/1073 IA42A/B T1P1S1P201

(R26011) (01 MAR 74)

REFERENCE DATA

SRF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 128/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.950	-6.506	-81083	375.80384	-10961	.25095	.05984	.02298	-.07370	.21342	-.10604	.25248
3.950	-4.268	-80612	375.90790	-10877	.24825	.06076	.01343	-.04312	.13543	-.10527	.24976
3.950	-2.138	-80424	375.93998	-10864	.24563	.06221	.00422	-.01603	.06306	-.10518	.24713
3.950	-1.082	-80119	375.93196	-10861	.24515	.06245	.00062	-.00412	.02969	-.10517	.24664
3.950	.011	-80813	375.88384	-10556	.24500	.06274	-.00316	.00912	-.00475	-.10509	.24551
3.950	1.073	-81248	375.90790	-11129	.24632	.06332	-.00742	.02278	-.04152	-.10778	.24788
3.950	2.153	-81535	375.89186	-11428	.24563	.06736	-.01176	.03548	-.07721	-.11076	.24822
3.950	4.303	-81998	375.89185	-11487	.24533	.06737	-.01987	.06047	-.14508	-.11128	.25115
3.950	6.464	-82689	375.89186	-12074	.25230	.07147	-.02913	.08952	-.22986	-.11759	.25421
3.950	8.626	-82852	375.98809	-12369	.25880	.07300	-.03879	.12144	-.23368	-.11994	.26056
GRADIENT		-80202	-80411	-80285	.00019	.00088	-.00385	.01209	-.03273	-.00024	.00020

RUN NO. 130/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-6.360	-25731	291.54067	-09822	.23571	.05593	.02142	-.06546	.19715	-.09716	.23215
4.630	-4.222	-25460	291.12155	-09612	.23233	.05580	.01225	-.03797	.13474	-.09509	.23275
4.630	-2.094	-25542	291.12155	-09419	.22966	.05546	.00438	-.01412	.05782	-.09316	.23053
4.630	-1.061	-25693	291.12155	-09206	.22935	.05940	.00108	-.00337	.02812	-.09803	.23039
4.630	.001	-25856	291.12155	-09977	.22972	.06035	-.00272	.00845	-.00612	-.09874	.23017
4.630	1.036	-26043	291.54067	-10068	.22956	.06155	-.00396	.01946	-.03730	-.09964	.23002
4.630	2.093	-25567	291.12155	-09614	.22950	.06085	-.00989	.03152	-.07004	-.09712	.23003
4.630	4.227	-25954	291.12155	-10060	.23417	.06290	-.01786	.05483	-.13551	-.09953	.23462
4.630	6.366	-25845	291.12155	-10280	.23844	.06409	-.02672	.08153	-.20681	-.10172	.23930
4.630	8.459	-25932	291.12155	-10502	.24308	.06659	-.03366	.11031	-.27790	-.10392	.24355
GRADIENT		-80054	.00933	-80062	.00016	.00093	-.00352	.01097	-.03077	-.00062	.00016

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 29

LRC UPWT 1056/1073 1A42A/B TIP1SIP20NFR1

(R06012) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 51/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-4.230	-0.0391	356.92225	-28405	.37975	.10337	.00034	-0.0143	.00482	-.25327	.39967
2.000	-2.036	-0.0093	355.66977	-16390	.37975	.06323	.00057	-0.0114	.00456	-.15030	.38533
2.000	.196	-0.0269	355.49584	-0.4538	.37769	.02569	.00087	-0.0083	.00521	-.04667	.37733
2.000	2.367	-0.0333	357.10118	.06928	.37331	-.01367	.00092	-0.0032	.00491	.05367	.37587
2.000	4.581	-0.01573	356.67176	.18758	.36760	-.05829	.00100	-0.0007	.00550	.15762	.38141
2.000	6.766	-0.01385	356.27812	.30076	.36578	-.09697	.00027	.00124	.00356	.25558	.39866
2.000	8.989	-0.01719	356.27812	.42339	.36592	-.13511	-.00014	.00245	.00352	.36502	.42757
2.000	11.204	-0.01967	356.45705	.53285	.36503	-.15874	-.00120	.00492	.00193	.45177	.46161
GRADIENT		-0.00068	.04206	.05337	-.00139	-.01815	.00008	.00016	.00008	.04671	-.00209

RUN NO. 47/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.229	-0.01943	544.38043	-57916	.36208	.21887	.00185	-0.0551	.00023	-.51300	.45028
2.500	-6.798	-0.01799	544.48285	-42687	.35156	.16069	.00133	-0.0486	.00886	-.70225	.39962
2.500	-4.511	-0.02542	544.43164	-29410	.34456	.11423	.00166	-0.0553	.01121	-.26659	.36663
2.500	-2.167	-0.02343	544.35482	-17089	.33809	.07447	.00130	-0.0441	.00966	-.15798	.34431
2.500	.138	-0.03368	544.12437	-.06651	.33354	.04691	.00161	-0.0498	.01258	-.06731	.33338
2.500	2.423	-0.03589	544.09877	.03729	.32700	.01475	.00209	-0.0511	.01417	.02343	.32828
2.500	4.735	-0.04305	543.97074	.15261	.32082	-.02656	.00276	-0.0728	.01695	.12561	.33232
2.500	7.054	-0.04809	544.53406	.28129	.31879	-.07264	.00296	-0.0578	.01659	.24002	.35092
2.500	9.385	-0.04052	545.19982	.40957	.31601	-.11910	.00185	-0.05315	.01227	.35255	.37857
2.500	11.742	-0.03811	544.50846	.52826	.31224	-.14637	.00088	-0.05223	.01083	.45170	.41280
GRADIENT		-0.00207	-.05104	.04773	-.00254	-.01479	.00013	-0.00022	.00069	.04180	-.00367

RUN NO. 49/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-12.240	-0.00912	494.14888	-.68474	.34864	.26187	.00028	-0.0202	.00424	-.59526	.48588
2.860	-10.041	-0.01246	494.57252	-.55452	.33842	.20686	.00079	-0.0348	.00633	-.48702	.42992
2.860	-7.700	-0.00888	494.55326	-.42771	.32608	.15902	.00028	-0.0308	.00524	-.38016	.38045
2.860	-5.460	-0.01908	494.32219	-.30339	.31535	.11538	.00045	-0.0313	.00783	-.27200	.34279
2.860	-3.220	-0.02134	494.13740	-.19283	.30870	.07523	.00055	-0.0310	.00838	-.17519	.31904
2.860	-.948	-0.01590	494.63028	-.09934	.30251	.05011	.00060	-0.0245	.00638	-.09433	.30411
2.860	1.295	-0.02282	494.51475	-.00833	.29658	.02749	.00086	-0.0315	.00880	-.01502	.29632
2.860	3.505	-0.02257	494.36070	.08065	.28885	-.00111	.00117	-0.0303	.00862	.06284	.29324
2.860	5.732	-0.02318	494.55326	.18371	.28383	-.03739	.00130	-0.0334	.00908	.15434	.30082
2.860	8.033	-0.02670	494.49549	.30190	.28048	-.07970	.00203	-0.0419	.01081	.25974	.31992
2.860	10.313	-0.03040	494.03335	.42077	.27505	-.12229	.00246	-0.0523	.00969	.36473	.34593
GRADIENT		-0.00047	.01840	.04566	-.00292	-.01122	.00009	-0.00002	.00014	.03559	-.00361

LARC UPWT 1056/1073 1A42A/B T1P1S1P201FR1

(R06012) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 131/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CO
3.900	-11.823	-0.00630	375.93196	-0.50014	.30205	.19644	.00002	.50016	.00180	-.47659	.40836
3.900	-9.621	-0.01409	375.88384	-4.5621	.29197	.16618	.00084	-.00348	.00751	-.40099	.36412
3.900	-7.392	-0.01152	375.82771	-3.6723	.27936	.13964	.00115	-.00331	.00656	-.32824	.32429
3.900	-5.203	-0.00812	375.90790	-2.7649	.26812	.11011	.00072	-.00214	.00445	-.25121	.29011
3.900	-2.998	-0.0062	375.93196	-1.8936	.25487	.08385	.00086	-.00215	.00462	-.17577	.26442
3.900	-.859	-0.01106	376.02017	-1.1127	.24789	.06103	.00127	-.00272	.00591	-.10754	.24953
3.900	1.364	-0.01083	375.94800	-.02305	.24562	.04089	.00077	-.00180	.00501	-.03877	.23976
3.900	3.532	-0.01324	376.06027	.04462	.23618	.01675	.00082	-.00235	.00627	.02998	.23449
3.900	5.693	-0.01581	375.90790	.12237	.23087	-.00725	.00150	-.00404	.00862	.09687	.24187
3.900	7.894	-0.01640	375.87582	.21026	.22634	-.03622	.00140	-.00515	.00983	.17722	.25354
3.900	10.088	-0.01265	375.93998	.30738	.22146	-.07072	.00096	-.00162	.00546	.26324	.27158
3.900	12.332	-0.01034	375.92394	.41302	.21721	-.10993	.00064	-.00000	.00322	.35710	.30741
GRADIENT		-.00062	.01424	.03576	-.00290	-.01015	-.00003	.00002	.00018	.03145	-.00405

RUN NO. 133/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CO
4.630	-10.931	-0.00182	290.46845	-.48968	.29064	.17407	.00061	-.00233	.00280	-.42569	.37822
4.630	-8.807	-0.00420	290.46845	-.40640	.27989	.14840	.00074	-.00301	.00438	-.35675	.33861
4.630	-6.658	-0.00592	290.46845	-.33031	.26595	.12690	.00079	-.00249	.00461	-.29725	.30246
4.630	-4.527	-0.00579	290.88756	-.24777	.25351	.10055	.00094	-.00265	.00471	-.22699	.27829
4.630	-2.399	-0.00628	290.88756	-.17012	.24250	.07690	.00103	-.00256	.00486	-.15582	.24941
4.630	-.230	-0.00471	290.46845	-.09503	.23107	.05731	.00064	-.00032	.00219	-.09511	.20149
4.630	1.908	-0.00730	290.46845	-.02587	.22385	.04036	.00117	-.00252	.00385	-.03331	.22837
4.630	3.995	-0.00716	290.46845	.04760	.21818	.01735	.00035	-.00265	.00533	.03229	.22197
4.630	6.106	-0.00838	290.46845	.12097	.21146	-.00587	.00100	-.00380	.00687	.09780	.22112
4.630	8.247	-0.01005	290.46845	.20014	.20513	-.03127	.00053	-.00323	.00703	.16265	.23171
4.630	10.394	-0.00893	290.46845	.29088	.19941	-.06386	.00036	-.00233	.00562	.25013	.24452
GRADIENT		-.00018	-.05907	.03442	-.00419	-.00950	-.00000	.00000	.00008	.03021	-.00416



TABLED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 14 JUL 74

(R06013) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B 71F1S1P200FR1

PARAMETRIC DATA

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = 5.000 RUDDER = .0000

RUN NO. 52/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-4.247	5.40647	357.20854	-.29070	.38181	.10782	-.02780	.09009	-.22114	-.26162	.40229
2.000	-2.044	5.39425	357.36746	-.16816	.38033	.06585	-.02872	.09099	-.21775	-.15449	.38628
2.000	.174	5.38729	357.53060	-.05077	.37688	.02767	-.02948	.09270	-.21700	-.05191	.37672
2.000	2.379	5.38033	357.53060	-.06905	.37274	-.01356	-.03006	.09285	-.21474	.03552	.37528
2.000	4.570	5.37702	357.42325	.18099	.36699	-.05315	-.03105	.09111	-.21192	.15117	.38025
2.000	6.770	5.38391	357.35168	.30151	.36274	-.09719	-.03324	.08943	-.21264	.25665	.39576
2.000	8.995	5.39303	357.35168	.42625	.35971	-.13794	-.03499	.08703	-.21340	.36477	.42193
2.000	11.225	5.39568	357.31589	.54959	.35724	-.17276	-.03468	.08268	-.21000	.48954	.45739
GRADIENT		-.00330	.02601	.05353	-.00169	-.01820	-.00036	.00018	.00097	.04686	-.00249

RUN NO. 48/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.224	5.68893	543.66347	-.58681	.36100	.22659	-.02685	.09269	-.24236	-.52136	.45040
2.500	-6.856	5.65425	544.79012	-.43070	.35378	.16392	-.02473	.09043	-.23197	-.38575	.40233
2.500	-4.527	5.62466	544.09877	-.30688	.34487	.12159	-.02430	.08531	-.22039	-.27870	.36801
2.500	-2.171	5.60655	543.84271	-.17537	.33838	.07653	-.02517	.08350	-.21457	-.16243	.34478
2.500	.146	5.59710	543.81710	-.06173	.33217	.04201	-.02584	.08569	-.21460	-.06257	.33201
2.500	2.460	5.58931	544.30361	.04558	.32601	.00778	-.02562	.08436	-.21141	.03155	.32766
2.500	4.766	5.56414	543.30498	.17189	.32024	-.03688	-.02628	.08186	-.20347	.14469	.33341
2.500	7.072	5.57491	543.66347	.29005	.31705	-.07920	-.02891	.07985	-.20383	.24881	.35035
2.500	9.424	5.57474	543.30498	.42477	.31233	-.12438	-.03112	.07528	-.19933	.36789	.37677
2.500	11.779	5.57411	542.94650	.55213	.30637	-.16546	-.03431	.07435	-.19835	.47796	.41253
GRADIENT		-.00596	-.04847	.05076	-.00265	-.01661	-.00019	-.00026	.00159	.04483	-.00373

RUN NO. 50/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-12.254	5.62602	494.68805	-.68908	.35156	.26111	-.03072	.10222	-.25583	-.59876	.48980
2.860	-10.097	5.59286	494.49549	-.56539	.34062	.21430	-.02844	.09734	-.24280	-.49692	.43441
2.860	-7.699	5.57099	494.53400	-.43434	.32881	.16403	-.02577	.09280	-.23284	-.38637	.38403
2.860	-5.954	5.54632	494.72657	-.31875	.31862	.12373	-.02451	.08876	-.22270	-.28672	.34773
2.860	-3.225	5.53111	494.18740	-.20446	.31036	.08415	-.02424	.08340	-.21370	-.18667	.32137
2.860	-.946	5.50512	494.88061	-.10212	.30147	.05294	-.02456	.08065	-.20433	-.09713	.30312
2.860	1.264	5.49565	494.47624	-.00773	.29475	.02515	-.02414	.07855	-.20000	-.01433	.29450
2.860	3.523	5.49937	494.91913	.09103	.28868	-.00904	-.02495	.07799	-.20030	.07312	.29373
2.860	5.787	5.48284	494.97689	.20551	.28418	-.05028	-.02540	.07267	-.19085	.17581	.30346
2.860	8.089	5.48797	494.53326	.32292	.28001	-.09257	-.02726	.07010	-.18969	.28031	.32266
2.860	10.332	5.48852	494.78433	.43352	.27648	-.13196	-.02903	.06841	-.18859	.37690	.34974
GRADIENT		-.00464	.08000	.04365	-.00319	-.01368	-.00008	-.00082	.00199	.03836	-.00408

(R06013) (01 MAR 74)

LRC UPWT 1056/1073 IA42A/B T1P1S1P2O1FR1

REFERENCE DATA

SHEF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDER = .000

RUN NO. 132/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-11.930	5.50497	375.97205	-56177	.30855	.25068	-.02480	.08755	-.21764	-.48585	.41801
3.900	-9.617	5.48944	376.02017	-46449	.29823	.17006	-.02267	.06193	-.20767	-.40847	.36966
3.900	-7.423	5.48038	375.90790	-37901	.28484	.14570	-.02148	.07901	-.20223	-.33903	.33142
3.900	-5.230	5.46986	375.86780	-28861	.27052	.11705	-.01982	.07418	-.19458	-.26275	.29570
3.900	-3.028	5.45689	375.91592	-19655	.25964	.08659	-.01887	.06895	-.18577	-.18256	.26565
3.900	-.856	5.44133	375.80365	-11695	.25074	.06368	-.01914	.06333	-.17583	-.11314	.25246
3.900	1.334	5.42716	375.98809	-03694	.24370	.04294	-.01994	.05950	-.16788	-.04261	.24277
3.900	3.526	5.42184	376.03621	.04864	.23806	.01405	-.02053	.05543	-.16244	.03391	.24360
3.900	5.689	5.41849	375.79553	.13717	.23435	-.01785	-.02052	.05068	-.15720	.11327	.24660
3.900	7.901	5.41216	375.96404	.22999	.23003	-.04966	-.02078	.04561	-.15057	.15619	.25946
3.900	10.102	5.41325	376.04423	.32882	.22590	-.08511	-.02254	.04536	-.15065	.24410	.28007
GRADIENT		-.00549	.02500	.03732	-.00328	-.01091	-.00026	-.00203	.00357	.03695	-.00443

RUN NO. 134/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-11.058	5.37926	290.46845	-50330	.29451	.17941	-.02161	.09000	-.20077	-.43740	.26316
4.630	-8.843	5.37160	290.88756	-41919	.28536	.15321	-.02003	.07461	-.19341	-.37034	.31921
4.630	-6.677	5.36865	290.46945	-34017	.27347	.13255	-.01897	.07067	-.18801	-.30606	.31117
4.630	-4.545	5.35044	290.88756	-25801	.25989	.10681	-.01707	.06479	-.17917	-.23660	.27322
4.630	-2.404	5.35119	290.45845	-17757	.24728	.08195	-.01698	.06105	-.17221	-.16704	.25421
4.630	-.276	5.33633	290.68756	-10111	.23520	.06222	-.01741	.05607	-.16173	-.09997	.23569
4.630	1.848	5.32826	290.88756	-.02477	.22615	.03857	-.01873	.05343	-.15567	-.03206	.22524
4.630	3.954	5.32037	290.88755	.05134	.21856	.01273	-.01864	.04740	-.14728	.03599	.22111
4.630	6.106	5.31736	290.46845	.13165	.21343	-.01484	-.01863	.04270	-.14186	.10820	.22022
4.630	8.255	5.31473	290.88756	.21367	.20845	-.04151	-.01861	.03762	-.13802	.18153	.22037
4.630	10.400	5.30982	290.88756	.30344	.20503	-.07146	-.01931	.03501	-.13166	.26144	.25544
GRADIENT		-.00481	.01960	.03617	-.00487	-.01086	-.00020	-.00199	.00375	.03189	-.00560



TABULATED SOURCE DATA, LARC UPWT 1056/1073 (IA42A/B)

DATE 12 JUL 74

(R6014) (01 MAR 74)

LRC UPWT 1056/1073 IA42A/B 74P6S1P201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

RUN NO. 57/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-4.280	-0.0178	358.17474	-2362	.37694	.11350	.00064	-.00272	.00638	-.26452	.39980
2.000	-2.072	-0.01019	357.31509	-17360	.37787	.07335	.00069	-.00263	.00611	-.16002	.38991
2.000	.134	-0.01153	357.06540	-.05899	.37483	.03633	.00064	-.00196	.00591	-.05986	.37470
2.000	2.331	-0.01252	357.74532	.05804	.36923	-.00562	.00056	-.00137	.00566	.04298	.37129
2.000	4.518	-0.01411	357.67374	.17156	.36363	-.04817	.00073	-.00215	.00700	.14238	.37601
2.000	6.717	-0.01495	357.60217	.29888	.36040	-.10010	.00049	-.00081	.00596	.25467	.39289
2.000	8.933	-0.01812	357.56639	.42364	.35964	-.14189	.00015	.00116	.00510	.36266	.42106
2.000	11.156	-0.02264	357.70553	.53806	.35831	-.17133	-.00023	.00348	.00436	.45357	.45564
GRADIENT		-.00041	-.02620	.03283	-.00178	-.01829	.00000	.00011	.00004	.04622	-.00274

RUN NO. 53/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-9.215	-0.02516	544.79012	-.57684	.35367	.22620	.00104	-.00441	.01003	-.51276	.44147
2.000	-6.816	-0.02685	545.12300	-.43118	.34406	.16744	.00092	-.00518	.01117	-.29750	.39279
2.000	-4.539	-0.03562	543.89392	-.29933	.33711	.12073	.00127	-.00562	.01361	-.27172	.35973
2.000	-2.206	-0.04210	545.30224	-.17434	.33193	.07763	.00187	-.00644	.01587	-.16143	.33840
2.000	.101	-0.01873	544.53406	-.07555	.32841	.05268	.00125	-.00480	.01359	-.07563	.32828
2.000	2.387	-0.03780	543.48424	.02405	.32086	.02114	.00163	-.00573	.01423	.01567	.32158
2.000	4.666	-0.04099	544.99497	.14221	.31603	-.02099	.00218	-.00611	.01531	.11653	.32656
2.000	6.964	-0.03618	544.14998	.26078	.31365	-.06292	.00237	-.00437	.01311	.22183	.34296
2.000	9.309	-0.03606	544.55967	.38948	.31013	-.17953	.00227	-.00448	.01260	.33418	.36905
2.000	11.669	-0.04061	544.53406	.52124	.30570	-.15269	.00214	-.00318	.01233	.44364	.40480
GRADIENT		-.00027	.01688	.04702	-.00231	-.01478	.00007	-.00001	.00007	.04120	-.00362

RUN NO. 55/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-12.247	-.00453	494.93838	-.68212	.34270	.26566	.00049	-.00300	.00407	-.59391	.47960
2.860	-10.040	-.00383	494.59177	-.55035	.33221	.21122	.00047	-.00195	.00286	-.46400	.42307
2.860	-7.711	-.00981	494.53177	-.42994	.32091	.16780	.00031	-.00289	.00529	-.38299	.37569
2.860	-5.507	-.01052	494.55326	-.31469	.31114	.12429	.00005	-.00208	.00467	-.28338	.33950
2.860	-3.267	-.01776	494.1475	-.20408	.30411	.08489	.00043	-.00271	.00710	-.18842	.31524
2.860	-1.005	-.01572	494.59177	-.10698	.29891	.05673	.00037	-.00191	.00580	-.10172	.30074
2.860	1.233	-.02002	494.88061	-.01854	.29250	.03250	.00081	-.00315	.00810	-.02483	.29204
2.860	3.455	-.02561	494.88061	.07149	.28552	.00481	.00115	-.00294	.00929	.05416	.28931
2.860	5.686	-.02488	494.86136	.16932	.28091	-.02953	.00172	-.00330	.00966	.14066	.29630
2.860	7.949	-.03231	494.88061	.28260	.27650	-.07089	.00205	-.00468	.01268	.24165	.31293
2.860	10.218	-.03118	494.51475	.40260	.27315	-.11683	.00243	-.00481	.01254	.34776	.34724
GRADIENT		-.00124	.06190	.04085	-.00277	-.01180	.00012	-.00009	.00039	.03565	-.00387

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 34

LRC UPWT 1056/1073 1A42A/B TAP6S1P201

(R68014) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 135/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-11.844	.00458	376.11640	-.34898	.30089	.20665	-.00096	.00310	-.00473	-.47553	.40716
3.900	-9.647	.00335	376.15650	-.3454	.29131	.16907	-.00066	.00332	-.00460	-.39929	.36336
3.900	-7.440	.00115	376.22066	-.36600	.27969	.14246	-.00042	.00162	-.00227	-.32671	.32473
3.900	-5.237	.00133	376.07631	-.27869	.26753	.11442	-.00056	.00146	-.00218	-.25301	.29194
3.900	-3.037	.00030	376.14848	-.13178	.25735	.08621	-.00035	.00168	-.00205	-.17778	.26721
3.900	-.078	-.00316	376.18858	-.11358	.24922	.06399	-.00014	.00170	-.00191	-.10975	.25093
3.900	1.313	-.00389	376.11640	-.03555	.24380	.04311	.00010	.00035	.00049	-.04122	.24292
3.900	3.469	-.00628	376.18858	.03760	.23859	.02150	.00006	-.00011	.00175	.02310	.24043
3.900	5.631	-.00510	376.17254	.11668	.23386	-.00403	-.00019	-.00015	.00183	.09317	.24418
3.900	7.821	-.00726	376.18858	.20607	.22855	-.03466	.00002	-.00104	.00301	.17305	.25446
3.900	10.027	-.00554	376.11640	.30442	.22362	-.07087	-.00026	.00079	.00083	.26083	.27321
GRADIENT		-.00108	.00218	.03519	-.00283	-.00988	.00007	-.00031	.00063	.03043	-.00466

RUN NO. 137/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-10.972	.00272	290.78543	-.48106	.28663	.17421	-.00105	.00275	-.00418	-.41716	.37531
4.630	-8.830	-.00159	290.78543	-.39784	.27870	.14647	-.00030	.00135	-.00117	-.35035	.33647
4.630	-6.703	-.00267	290.36631	-.32233	.26620	.12520	-.00038	.00165	-.00100	-.28906	.30200
4.630	-4.566	-.00132	290.78543	-.24350	.25534	.10111	-.00001	.00102	-.00095	-.22240	.17391
4.630	-2.441	-.00178	290.36631	-.16990	.24589	.07989	.00001	.00110	-.00083	-.15927	.25291
4.630	-.308	-.00164	290.78543	-.09374	.23583	.05902	.00004	.00093	-.00072	-.09447	.23634
4.630	1.825	-.00212	290.78543	-.02560	.22804	.04135	-.00004	.00098	-.00056	-.03285	.22711
4.630	3.946	-.00259	290.36631	.04253	.22185	.02224	-.00025	.00119	-.00043	.02696	.22424
4.630	6.071	-.00315	290.78543	.11736	.21522	-.00308	-.00033	-.00004	.00105	.09394	.22643
4.630	8.210	-.00478	290.78543	.20213	.20835	-.03303	-.00044	.00058	.00115	.17030	.23018
4.630	10.348	-.00519	290.78543	.29089	.20262	-.06423	-.00020	.00073	.00119	.24977	.25158
GRADIENT		-.00014	-.01963	.03363	-.00398	-.00922	-.00002	.00001	.00006	.02936	-.00548

DATE 12 JUL 74

TASULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 35

LRC UPWT 1056/1073 1A42A/B 74P631P201

(R96015) (01 MAR 74)

PARAMETRIC DATA

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. WMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = 5.000 RUDDER = .000

RUN NO. 58/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-4.286	5.38262	357.20854	-29845	.38071	.11659	-.02199	.09151	-.22094	-.26916	.40196
2.000	-2.034	5.36814	357.42325	-17044	.37776	.07029	-.02867	.09151	-.21584	-.15692	.38357
2.000	-1.39	5.36037	357.63796	-.05623	.37376	.03223	-.02917	.09265	-.21422	-.05713	.37363
2.000	2.338	5.35243	357.74532	.06327	.36846	-.00983	-.02956	.09146	-.21027	.04818	.37074
2.000	4.534	5.34895	357.88846	.18205	.36391	-.05444	-.03045	.09051	-.20807	.15271	.37716
2.000	6.728	5.35649	357.88846	.30328	.36040	-.10143	-.03229	.08863	-.20880	.25897	.39345
2.000	8.933	5.36305	357.85267	.41913	.35665	-.13791	-.03371	.08544	-.20789	.35866	.41741
2.000	11.167	5.36633	357.74532	.54781	.35268	-.17858	-.03335	.08251	-.20615	.46913	.45210
GRADIENT		-.00378	.07643	.05428	-.00195	-.01918	-.00026	-.00010	.00142	.04765	-.00284

RUN NO. 54/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.246	5.65950	543.30180	-.59015	.35754	.23216	-.02711	.09381	-.24121	-.32504	.44772
2.500	-6.825	5.62572	544.04755	-.43605	.35155	.17119	-.02483	.09142	-.23102	-.39118	.40088
2.500	-4.563	5.62360	543.86831	-.31294	.34249	.12863	-.02440	.08704	-.22625	-.26470	.36630
2.500	-2.232	5.58268	543.63786	-.18433	.33420	.08352	-.02568	.08553	-.21555	-.17118	.34113
2.500	.088	5.57513	543.84271	-.07473	.32887	.05048	-.02642	.08625	-.21450	-.07524	.32876
2.500	2.383	5.55889	543.99634	.03912	.32207	.00912	-.02650	.08556	-.21010	.02570	.32342
2.500	4.685	5.54417	543.76589	.15854	.31723	-.03468	-.02687	.08353	-.20482	.13210	.32912
2.500	6.997	5.54204	543.79150	.28696	.31225	-.08202	-.02901	.07988	-.20071	.24678	.34488
2.500	9.350	5.54362	544.14998	.41485	.30770	-.12727	-.03125	.07750	-.19863	.35935	.37101
2.500	11.690	5.53308	544.22679	.54690	.30372	-.17358	-.03248	.07491	-.19366	.47402	.40823
GRADIENT		-.00791	.00663	.05047	-.00271	-.01735	-.00025	-.00030	.00209	.04459	-.00399

RUN NO. 56/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-12.265	5.61163	494.63028	-.68948	.34910	.27163	-.03076	.10085	-.25091	-.59958	.48760
2.860	-10.060	5.58829	494.76508	-.56356	.33774	.22003	-.02801	.09604	-.24030	-.49590	.43099
2.860	-7.720	5.56697	494.70731	-.43311	.32776	.16871	-.02598	.09368	-.23267	-.38515	.38297
2.860	-5.553	5.53686	494.30293	-.32305	.31638	.12687	-.02434	.08926	-.22691	-.29092	.34615
2.860	-3.253	5.51355	495.03392	-.20607	.30791	.08784	-.02434	.08363	-.20934	-.18327	.31911
2.860	-1.003	5.49746	494.93038	-.11034	.29974	.05844	-.02468	.09116	-.20292	-.10508	.30162
2.860	1.229	5.48583	494.72657	-.01439	.29335	.02895	-.02477	.07889	-.19783	-.02068	.29297
2.860	3.434	5.47204	494.47624	.08065	.28721	-.00442	-.02508	.07765	-.19323	.06320	.29154
2.860	5.707	5.47990	495.20797	.19219	.28320	-.04604	-.02581	.07326	-.19065	.16307	.30091
2.860	7.990	5.47678	494.57252	.30735	.27787	-.08752	-.02756	.07076	-.18755	.26574	.31789
2.860	10.273	5.47300	495.09243	.42822	.27319	-.13201	-.02850	.06709	-.18285	.37264	.34519
GRADIENT		-.00609	-.08697	.04277	-.00306	-.01370	-.00010	-.00090	.00239	.03753	-.00409

DATE 12 JUL 74

PAGE 36

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(R26015) (01 MAP 74)

LRC UPWT 1056/1073 1A42A/B T4P6S1P201

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 136/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-11.863	5.43257	376.11640	-0.55300	.30797	.20226	-.02561	.08799	-.21398	-.47788	.41508
3.900	-9.616	5.44134	376.22066	-.46166	.29648	.17886	-.06358	.08220	-.20518	-.40539	.36972
3.900	-7.467	5.43493	376.14848	-.37593	.28630	.14796	-.02242	.08382	-.20196	-.33553	.33273
3.900	-5.263	5.42638	376.16452	-.28582	.27339	.11870	-.02096	.07659	-.19544	-.25934	.29844
3.900	-3.070	5.41340	376.15650	-.19672	.26311	.08910	-.02011	.07140	-.18667	-.18234	.27327
3.900	-.894	5.39590	376.24471	-.11707	.25427	.06825	-.02009	.06514	-.17551	-.11309	.25607
3.900	1.297	5.38366	376.05621	-.03722	.24688	.04358	-.02075	.06200	-.16890	-.04220	.24597
3.900	3.480	5.37355	376.11640	.02483	.24105	.01586	-.02151	.05220	-.16342	.03211	.24245
3.900	5.645	5.37318	376.04423	.13100	.23668	-.01397	-.02158	.05338	-.15805	.10709	.24841
3.900	7.841	5.36702	376.11640	.22543	.23229	-.04827	-.02163	.05001	-.15259	.19163	.26037
3.900	10.057	5.36288	376.18858	.32290	.22857	-.08181	-.02250	.04782	-.14528	.27811	.26595
GRADIENT		-.00548	-.01508	.05711	-.00337	-.01110	-.00022	-.00196	.00350	.03267	-.01456

RUN NO. 138/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-10.998	5.32596	290.78543	-.40909	.29579	.18007	-.02228	.07782	-.19311	-.43054	.28500
4.630	-8.853	5.32607	290.78543	-.41228	.28581	.15459	-.02090	.07482	-.19042	-.36339	.32565
4.630	-6.725	5.32046	290.78543	-.33272	.27372	.13028	-.01996	.07179	-.18621	-.29838	.31030
4.630	-4.583	5.31497	290.78543	-.25482	.26211	.10750	-.01840	.06724	-.17905	-.23286	.26152
4.630	-2.448	5.30378	290.78543	-.17399	.25121	.08247	-.01752	.06267	-.17039	-.16310	.25641
4.630	-.310	5.29271	290.78543	-.09785	.23922	.06815	-.01658	.05954	-.16307	-.09636	.23970
4.630	1.832	5.28401	290.78543	-.02144	.22945	.03736	-.01954	.05543	-.15583	-.02877	.22975
4.630	3.946	5.27021	290.78543	.05295	.22260	.01239	-.02007	.05103	-.15016	.03751	.22571
4.630	6.079	5.27312	290.78543	.13124	.21717	-.01363	-.01941	.04438	-.14158	.10750	.22955
4.630	8.212	5.26207	290.78543	.21137	.21252	-.03980	-.01993	.04091	-.13584	.17885	.24051
4.630	10.353	5.26257	290.78543	.30317	.20729	-.07233	-.02012	.03848	-.13151	.26098	.25664
GRADIENT		-.00419	.00000	.03598	-.00471	-.01097	-.00025	-.00126	.00339	.03164	-.01552



TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 12 JUL 74

(R86016) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T2P4S1P201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

RUN NO. 63/ 0 RV/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-4.216	-.01853	356.77911	-.29728	.33304	.11114	.00167	-.00512	.01155	-.27050	.37395
2.000	-2.003	-.01841	354.88249	-.17688	.35150	.07285	.00221	-.00571	.01214	-.16449	.35747
2.000	.202	-.01508	355.92027	-.06357	.34913	.03829	.00181	-.00402	.00930	-.06480	.34890
2.000	2.426	-.01993	356.74333	.05741	.34391	-.00193	.00214	-.00387	.01082	.04280	.34603
2.000	4.603	-.02248	356.27812	.17292	.33922	-.04458	.00233	-.00438	.01221	.14514	.35200
2.000	6.799	-.01927	355.66977	.29477	.33605	-.09076	.00212	-.00343	.01019	.25291	.36858
2.000	9.028	-.02441	355.74134	.42632	.33554	-.13327	.00164	-.00090	.00946	.36839	.39828
2.000	11.270	-.03013	356.42126	.54356	.33512	-.16149	.00075	-.00092	.00961	.46758	.43489
GRADIENT		-.00043	.03895	.05322	-.00160	-.01750	.00006	.00015	-.00000	.04706	-.00251

RUN NO. 59/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.256	-.01924	543.56104	-.59901	.32830	.22101	.00106	-.00390	.00827	-.53840	.42038
2.500	-6.795	-.03858	543.94513	-.44204	.31867	.16491	.00176	-.00646	.01518	-.40124	.36873
2.500	-4.512	-.03906	543.58665	-.31067	.31065	.12072	.00156	-.00541	.01426	-.28526	.33413
2.500	-2.135	-.04370	541.87106	-.18182	.30649	.08102	.00186	-.00365	.01558	-.17007	.31304
2.500	.177	-.05016	543.91952	-.07651	.30332	.05355	.00199	-.00647	.01782	-.07744	.30308
2.500	2.450	-.04164	543.48422	.02631	.29671	.02409	.00214	-.00552	.01496	.01360	.29756
2.500	4.773	-.04382	543.97074	.14227	.29131	-.01516	.00286	-.00609	.01602	.11754	.30213
2.500	7.108	-.04234	543.63786	.26830	.28886	-.05612	.00252	-.00541	.01502	.23049	.31984
2.500	9.456	-.04966	543.61225	.40327	.28613	-.10401	.00291	-.00560	.01686	.35078	.34849
2.500	11.832	-.05008	543.97074	.53782	.28423	-.14409	.00255	-.00409	.01545	.46792	.38842
GRADIENT		-.00033	.10201	.04811	-.00209	-.01420	.00012	-.00005	.00013	.04273	-.00344

RUN NO. 61/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-12.301	-.02944	495.16945	-.71161	.31894	.26300	.00061	-.00266	.00531	-.62733	.46322
2.860	-10.090	-.02986	494.89987	-.57899	.30802	.21375	.00017	-.00313	.00588	-.51607	.40470
2.860	-7.707	-.03526	494.11037	-.44832	.29662	.16703	.00029	-.00425	.00834	-.40449	.35407
2.860	-5.501	-.03923	495.59309	-.32681	.28648	.12463	.00034	-.00275	.00784	-.29784	.31649
2.860	-3.208	-.04250	494.70731	-.21188	.27945	.08598	.00068	-.00371	.00961	-.19591	.29087
2.860	-.946	-.04159	495.03466	-.11244	.27404	.05784	.00073	-.00324	.00893	-.10790	.27586
2.860	1.298	-.04676	495.30425	-.02324	.26866	.03763	.00097	-.00376	.01072	-.02932	.26806
2.860	3.553	-.05060	494.91913	.07252	.26196	.00915	.00142	-.00338	.01131	.05615	.26595
2.860	5.804	-.05254	494.99615	.17812	.25708	-.02606	.00165	-.00342	.01184	.15121	.27378
2.860	8.077	-.05286	494.35764	.29226	.25292	-.06552	.00212	-.00383	.01232	.25382	.29148
2.860	10.376	-.05635	495.20797	.41861	.24956	-.11057	.00233	-.00418	.01354	.36682	.32087
GRADIENT		-.00131	.04019	.04184	-.00257	-.01113	.00011	.00002	.00031	.03706	-.00367

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 38

LRC UPWT 1056/1073 1A42A/B T2P4S1P201

(R38016) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 139/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
3.900	-11.960	.00406	375.94800	-.56810	.27848	.19386	-.00097	.00254	-.00367	-.49806	.39016
3.900	-9.742	-.00219	375.92394	-.47346	.26656	.16648	-.00026	.00088	-.00011	-.42152	.34283
3.900	-7.538	-.00458	375.82771	-.38178	.25501	.13977	.00007	.00039	.00120	-.34502	.30289
3.900	-5.324	-.00506	375.89988	-.29261	.24274	.11535	.00030	.00039	.00139	-.26802	.26885
3.900	-3.129	-.00549	375.83573	-.20385	.23338	.08933	.00043	.00040	.00153	-.19081	.24416
3.900	-.943	-.00592	375.62722	-.11937	.22506	.06602	.00029	.00039	.00168	-.11565	.22700
3.900	1.257	-.00695	375.61920	-.03326	.21859	.04396	-.00020	.00055	.00186	-.04004	.21776
3.900	3.439	-.01201	375.77959	.04416	.21427	.02239	.00032	-.00157	.00337	.03123	.21654
3.900	5.631	-.01184	375.93196	.12655	.20970	-.00185	.00053	.00172	.00548	.10537	.22111
3.900	7.826	-.01300	376.20462	.21732	.20514	-.03048	.00048	-.00265	.00669	.18737	.23282
3.900	10.037	-.01186	376.06027	.32035	.20111	-.06640	.00046	-.00066	.00454	.28039	.25397
GRADIENT		-.00794	-.00807	.03781	-.00291	-.01018	-.00004	-.00026	.00053	.03386	-.00421

RUN NO. 141/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
4.630	-11.060	.00651	290.49023	-.50502	.26988	.17138	-.00074	.00326	-.00369	-.44381	.36181
4.630	-8.921	.00220	290.49023	-.42126	.25575	.14889	-.00043	.00192	-.00259	-.37651	.31799
4.630	-6.780	-.00078	290.07111	-.33619	.24320	.12337	-.00015	.00161	-.00097	-.30711	.28143
4.630	-4.642	-.00125	290.07111	-.25789	.23142	.10162	.00012	.00170	-.00081	-.23832	.25111
4.630	-2.503	-.00173	290.07111	-.18145	.22167	.08229	.00027	.00174	-.00065	-.17158	.23111
4.630	-.365	-.00157	290.07111	-.10309	.21280	.06116	.00018	.00155	-.00053	-.10173	.21111
4.630	1.767	-.00203	290.07111	-.02886	.20326	.04325	-.00001	.00159	-.00037	-.03518	.20421
4.630	3.902	-.00322	290.07111	.04703	.19911	.02272	.00026	.00042	.00119	.03338	.20165
4.630	6.042	-.00185	290.49023	.12243	.19335	.00192	-.00029	-.00024	.00125	.10140	.21516
4.630	8.197	-.00153	290.49023	.20351	.18712	-.02580	-.00052	.00111	-.00009	.18070	.21208
4.630	10.345	-.00057	290.07111	.30460	.17939	-.05865	-.00065	.00223	-.00148	.26744	.23117
GRADIENT		-.00020	.00000	.03570	-.00380	-.00922	.00000	-.00013	.00020	.03183	-.00584



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 39

LRC UPWT 1056/1073 1A42A/B T2P4SIP201

(R06017) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0155 SCALE

BETA = 5.000 RUDDER = .000

PARAMETRIC DATA

RUN NO. 64/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.000	-4.242	5.39726	356.70754	-30952	.35596	.11828	-.02743	.08729	-.2184	-.28234	.37789
2.000	-1.998	5.38681	356.67176	-17491	.35305	.07077	-.02822	.08850	-.21945	-.16249	.35894
2.000	.205	5.38037	356.67176	-.05444	.34949	.03048	-.02864	.08932	-.21804	-.05569	.34930
2.000	2.418	5.36587	356.49283	.06273	.34490	-.00776	-.02895	.08779	-.21157	.04812	.34724
2.000	4.610	5.36292	356.49283	.17805	.34000	-.04840	-.02959	.08593	-.20872	.15015	.35321
2.000	6.815	5.37722	356.88647	.29914	.33575	-.09129	-.03200	.08511	-.21269	.25718	.36887
2.000	9.036	5.38151	356.95804	.42411	.33165	-.13067	-.03364	.08254	-.21159	.36676	.39414
2.000	11.285	5.38430	356.99382	.55610	.32788	-.17027	-.03360	.07890	-.20892	.48118	.43036
GRADIENT		-.00405	-.02750	.05483	-.00181	-.01862	-.00023	-.00015	.00154	.04863	-.00277

RUN NO. 60/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.500	-9.267	5.70267	544.30361	-.60503	.33318	.22684	-.02733	.09074	-.24759	-.54348	.42826
2.500	-6.820	5.67586	544.04755	-.45258	.32360	.17093	-.02573	.08976	-.24063	-.41095	.37506
2.500	-4.532	5.64428	543.68907	-.32079	.31532	.12455	-.02498	.08448	-.22836	-.29488	.33969
2.500	-2.169	5.61440	543.35620	-.18488	.30992	.08184	-.02574	.08189	-.21911	-.17302	.31669
2.500	.152	5.60512	544.53406	-.07881	.30466	.05191	-.02688	.08333	-.21815	-.07961	.30445
2.500	2.478	5.58530	543.71468	.04208	.29709	.01353	-.02648	.08089	-.21145	.02920	.29863
2.500	4.788	5.57466	543.48422	.16273	.29214	-.03005	-.02697	.07965	-.20787	.13778	.30470
2.500	7.135	5.58553	544.32922	.28908	.28717	-.07219	-.03010	.07803	-.20851	.25117	.32085
2.500	9.505	5.59692	543.79150	.43213	.28151	-.12177	-.03225	.07705	-.21024	.37972	.34900
2.500	11.886	5.58626	543.38180	.56756	.27719	-.16288	-.03416	.07131	-.20224	.49830	.38814
GRADIENT		-.00723	-.02211	.05128	-.00254	-.01521	-.00020	-.00046	.00209	.04585	-.00379

RUN NO. 62/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CD
2.860	-12.298	5.65832	495.34276	-.71136	.32503	.26342	-.03140	.09791	-.25928	-.82581	.46909
2.860	-10.089	5.63229	495.03466	-.58507	.31387	.21680	-.02947	.09666	-.25167	-.52105	.41150
2.860	-7.729	5.61110	494.72637	-.45163	.30311	.16923	-.02718	.09319	-.24306	-.40676	.36109
2.860	-5.496	5.57924	495.01541	-.32947	.29261	.12633	-.02426	.08563	-.22757	-.29993	.32282
2.860	-3.219	5.55359	494.99615	-.21525	.28309	.08790	-.02461	.08125	-.21666	-.19902	.29473
2.860	-.947	5.53775	494.63028	-.11480	.27596	.05928	-.02493	.07822	-.21002	-.11022	.27782
2.860	1.303	5.52359	495.16945	-.01597	.27014	.03245	-.02525	.07638	-.20453	-.02211	.26970
2.860	3.583	5.51611	495.09243	.08913	.26364	-.00293	-.02583	.07547	-.20179	.07248	.26870
2.860	5.835	5.51869	494.91913	.20239	.25953	-.04264	-.02673	.07179	-.19882	.17496	.27876
2.860	8.121	5.52144	494.78433	.32402	.25360	-.08699	-.02843	.07029	-.19805	.28494	.29683
2.860	10.425	5.52457	495.18871	.44773	.24853	-.12942	-.03013	.06685	-.19531	.39537	.32544
GRADIENT		-.00559	.03642	.04467	-.00283	-.01321	-.00018	-.00085	.00224	.03984	-.00380

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 12 JUL 74

(R08017) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T2P4S1P201

PARAMETRIC DATA

REFERENCE DATA

BETA = 5.000 RUDDER = .000

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .5150 SCALE

RUN NO. 140/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CC
3.900	-11.967	5.49761	375.88384	-57405	.28456	.19647	-.02792	.08943	-.22904	-.50257	.39740
3.900	-9.760	5.48456	375.77959	-47930	.27205	.16834	-.02509	.08432	-.22026	-.42024	.34937
3.900	-7.559	5.47303	375.91392	-39033	.26106	.14377	-.02343	.08107	-.21357	-.38260	.31014
3.900	-5.349	5.45888	375.90790	-30161	.24900	.12015	-.02159	.07825	-.20472	-.27709	.27603
3.900	-3.138	5.44406	375.75553	-20791	.23916	.09110	-.02046	.07050	-.19494	-.19450	.25018
3.900	-9.49	5.42729	375.94800	-12175	.22991	.06702	-.02063	.06406	-.18378	-.11792	.23190
3.900	1.255	5.41250	375.93195	-03587	.22178	.04429	-.02118	.05933	-.17488	-.04072	.22095
3.900	3.450	5.40341	375.92394	.05139	.21600	.01698	-.02215	.05604	-.17461	.03820	.21870
3.900	5.639	5.40800	375.95602	.13889	.21213	-.01150	-.02234	.05278	-.16750	.11737	.22476
3.900	7.848	5.42424	375.86780	.23812	.20810	-.04478	-.02224	.04818	-.16219	.20748	.23867
3.900	10.062	5.39955	375.86780	.33995	.20479	-.07919	-.02310	.04504	-.15784	.29894	.26103
GRADIENT		-.03554	.02225	.03932	-.00353	-.01116	-.00026	-.00219	.00373	.03531	-.00450

RUN NO. 142/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	Q (PSF)	CN	CA	CLM	CBL	CYN	CY	CL	CC
4.630	-11.079	5.35137	290.49023	-51142	.27443	.17576	-.02345	.08012	-.20508	-.44916	.36759
4.630	-9.933	5.34900	290.49023	-42761	.26821	.15188	-.02228	.07672	-.20089	-.38171	.32543
4.630	-6.788	5.34213	290.49023	-34768	.24911	.13106	-.02072	.07203	-.19373	-.31579	.28845
4.630	-4.643	5.33918	290.07111	-.26450	.23638	.10616	-.01981	.06890	-.18983	-.24433	.23901
4.630	-2.507	5.32982	290.49023	-.18107	.22774	.08132	-.01868	.06391	-.18098	-.17594	.23544
4.630	-.366	5.31268	290.49023	-.10032	.21766	.05891	-.01917	.05891	-.17230	-.09893	.21809
4.630	1.781	5.30809	290.07111	-.02403	.20687	.03935	-.02048	.05409	-.16381	-.03044	.20041
4.630	3.917	5.30256	290.07111	.05831	.19871	.01333	-.02113	.05027	-.15809	.04460	.20203
4.630	6.056	5.29681	290.07111	.13337	.19531	-.00779	-.02048	.04496	-.15092	.11202	.20329
4.630	8.206	5.29318	290.07111	.22325	.18964	-.03720	-.02149	.04188	-.14665	.19389	.21555
4.630	10.332	5.28623	290.49023	.31297	.18523	-.06574	-.02154	.03699	-.13923	.27459	.22246
GRADIENT		-.00444	-.01962	.03749	-.00468	-.01063	-.00021	-.00218	.00377	.03356	-.00662

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 41

LRC UPWT 1056/1073 1A42A/B T1P1

(A06001) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 Sq.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 5/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
1.600	-10.265	-.00704	-.54767	-.21045	-.20442	-.21142	.00000	.00000
1.600	-8.257	-.00651	-.45516	-.19063	-.18768	-.19948	.00000	.00000
1.600	-6.096	-.00570	-.36022	-.17647	-.17344	-.19003	.00000	.00000
1.600	-4.072	-.00740	-.26684	-.16326	-.15898	-.17879	.00000	.00000
1.600	-1.979	-.00699	-.16913	-.15096	-.14619	-.16922	.00000	.00000
1.600	.111	-.00818	-.07057	-.15435	-.15120	-.17261	.00000	.00000
1.600	2.197	-.00731	.02785	-.15777	-.15304	-.16968	.00000	.00000
1.600	4.292	-.01047	.14653	-.16099	-.15628	-.17291	.00000	.00000
1.600	6.390	-.00899	.25803	-.16407	-.15937	-.18234	.00000	.00000
1.600	8.490	-.00976	.36829	-.18625	-.18010	-.19983	.00000	.00000
1.600	10.604	-.01087	.48824	-.19762	-.19153	-.21438	.00000	.00000
GRADIENT		-.00031	.04897	.00008	-.00007	.00054	.00000	.00000

RUN NO. 7/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
2.000	-9.674	-.00892	-.64505	-.18959	-.18612	-.19431	.00000	.00000
2.000	-7.654	-.00998	-.52844	-.17143	-.16788	-.17768	.00000	.00000
2.000	-5.498	-.00994	-.40299	-.15690	-.15327	-.17113	.00000	.00000
2.000	-3.479	-.00908	-.29606	-.14864	-.14496	-.15805	.00000	.00000
2.000	-1.397	-.01079	-.18082	-.14056	-.13683	-.15476	.00000	.00000
2.000	.705	-.01069	-.05870	-.13736	-.13362	-.14996	.00000	.00000
2.000	2.799	-.01273	.07744	-.13740	-.13366	-.14517	.00000	.00000
2.000	4.888	-.01395	.20859	-.14382	-.14012	-.15161	.00000	.00000
2.000	6.993	-.01628	.35032	-.15021	-.14653	-.16123	.00000	.00000
2.000	9.099	-.01450	.49495	-.16300	-.15940	-.17405	.00000	.00000
2.000	11.217	-.01478	.64552	-.17743	-.17391	-.18692	.00000	.00000
GRADIENT		-.00056	.06056	.00061	.00061	.00107	.00000	.00000

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 42

LRC UPWT 1056/1073 1A42A/B TIP1

(A08001) (01 MAR 74)

REFERENCE DATA

SEEP = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO.		1 / 0	RN/L = 2.50	GRADIENT INTERVAL = -5.00/ 5.00			
MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBB
2.500	-9.532	-.00963	-.74145	-.14247	-.13748	-.14964	.00000
2.500	-7.496	-.01086	-.57044	-.13199	-.12519	-.13737	.00000
2.500	-5.366	-.01010	-.45464	-.11622	-.11109	-.12858	.00000
2.500	-3.345	-.01468	-.29450	-.11272	-.10757	-.12156	.00000
2.500	-1.260	-.01378	-.15470	-.10927	-.10410	-.11634	.00000
2.500	.830	-.01337	-.01835	-.10057	-.09711	-.11113	.00000
2.500	2.914	-.01521	.16094	-.10055	-.09533	-.10935	.00000
2.500	5.000	-.01478	.29248	-.10395	-.10051	-.11453	.00000
2.500	7.096	-.01807	.49457	-.11446	-.10531	-.12506	.00000
2.500	9.194	-.01927	.65775	-.12672	-.12164	-.13560	.00000
2.500	11.292	-.01917	.81732	-.13372	-.12692	-.14086	.00000
GRADIENT		-.00008	.07139	.00126	.00110	.00101	.00000

RUN NO.		3 / 0	RN/L = 2.50	GRADIENT INTERVAL = -5.00/ 5.00			
MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBB
2.860	-10.606	-.00589	-.84335	-.11177	-.10949	-.11888	.00000
2.860	-8.591	-.00846	-.69339	-.11284	-.10755	-.11502	.00000
2.860	-6.453	-.00867	-.54074	-.10321	-.09594	-.10336	.00000
2.860	-4.453	-.00773	-.39243	-.09556	-.08325	-.10154	.00000
2.860	-2.385	-.00778	-.26038	-.09361	-.08629	-.09767	.00000
2.860	-.308	-.00844	-.09820	-.08785	-.08049	-.09188	.00000
2.860	1.766	-.00992	.07077	-.08205	-.07659	-.08992	.00000
2.860	3.841	-.01012	.23761	-.08598	-.07862	-.09194	.00000
2.860	5.916	-.00951	.40536	-.09362	-.08823	-.09768	.00000
2.860	7.990	-.01082	.58532	-.10324	-.09596	-.10731	.00000
2.860	10.086	-.01167	.77610	-.11091	-.10368	-.11501	.00000
GRADIENT		-.00033	.07673	.00148	.00140	.00130	.00000

LRC UPWT 1056/1073 1A42A/B T1P1

(A26001) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 107/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
3.900	-10.535	.01689	-.93609	-.05622	.40185	-.07271	.00000	.00000
3.900	-8.468	.01703	-.80219	-.05367	.38413	-.07524	.00000	.00000
3.900	-6.396	.01716	-.62537	-.05104	.34170	-.07013	.00000	.00000
3.900	-4.332	.01666	-.43661	-.05366	.31556	-.07016	.00000	.00000
3.900	-2.269	.01672	-.26679	-.05372	.27685	-.06767	.00000	.00000
3.900	-.220	.01813	-.07751	-.05627	.21070	-.06514	.00000	.00000
3.900	1.839	.01817	.08854	-.05623	.16274	-.06511	.00000	.00000
3.900	3.901	.01762	.27629	-.05876	.19592	-.06510	.00000	.00000
3.900	5.961	.01832	.49362	-.06383	.16560	-.06507	.00000	.00000
3.900	8.045	.01841	.68863	-.06638	.09173	-.06761	.00000	.00000
3.900	10.099	.01913	.85110	-.06896	.03557	-.07018	.00000	.00000
GRADIENT		.00016	.08657	-.00062	-.01717	.00062	.00000	.00000

RUN NO. 111/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
4.630	-9.863	-.00288	-.92718	-.04096	.33389	-.04906	.00000	.00000
4.630	-7.803	-.00277	-.75651	-.04096	.37002	-.04906	.00000	.00000
4.630	-5.763	-.00267	-.56799	-.04096	.33060	-.04906	.00000	.00000
4.630	-3.708	-.00260	-.38246	-.04422	.26867	-.04903	.00000	.00000
4.630	-1.666	-.00121	-.19995	-.04425	.21891	-.04906	.00000	.00000
4.630	.376	-.00116	-.00244	-.04425	.13021	-.04906	.00000	.00000
4.630	2.421	-.00111	.19745	-.04425	.14007	-.04578	.00000	.00000
4.630	4.475	-.00106	.38882	-.04425	.16635	-.04578	.00000	.00000
4.630	6.513	-.00039	.59162	-.04422	.08115	-.04903	.00000	.00000
4.630	8.572	.00030	.77578	-.04754	.02837	-.04906	.00000	.00000
4.630	10.623	.00039	.92049	-.04751	.02193	-.04903	.00000	.00000
GRADIENT		.00016	.09485	-.00000	-.01385	.00048	.00000	.00000

(A06002) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B Y1P1

REFERENCE DATA

SREF = 2090.0000 Sq.FT.
 LREF = 1290.3000 INCHES
 BREF = 1290.3000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO.		6/0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00			
MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC
1.600	-10.296	5.31215	-.60766	-.22124	-.21529	-.22857	CPSRBB
1.600	-8.267	5.30568	-.49536	-.20589	-.19985	-.21158	.00000
1.600	-6.099	5.29873	-.38319	-.19179	-.18726	-.20377	.00000
1.600	-4.080	5.29615	-.26393	-.18241	-.17624	-.19910	.00000
1.600	-1.989	5.29644	-.15956	-.18072	-.17613	-.19900	.00000
1.600	.104	5.29894	-.06834	-.17580	-.17118	-.19566	.00000
1.600	2.190	5.30496	.02554	-.17631	-.17011	-.19614	.00000
1.600	4.294	5.31549	.12923	-.17941	-.17640	-.20241	.00000
1.600	6.383	5.32380	.23687	-.19199	-.18745	-.21113	.00000
1.600	8.483	5.33957	.32649	-.20943	-.20339	-.22785	.00000
1.600	10.612	5.35547	.44540	-.22556	-.22122	-.23609	.00000
GRADIENT		.05226	.04642	.00050	.00027	-.00014	.00000

RUN NO.		8/0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00			
MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC
2.000	-9.688	5.28523	-.65922	-.20149	-.19811	-.20944	CPSRBB
2.000	-7.670	5.29492	-.58189	-.18548	-.18200	-.19617	.00000
2.000	-5.501	5.28849	-.43086	-.17110	-.16754	-.17735	.00000
2.000	-3.496	5.28688	-.30485	-.16311	-.15951	-.17416	.00000
2.000	-1.392	5.28603	-.17692	-.15346	-.14980	-.16770	.00000
2.000	.698	5.28948	-.05880	-.14184	-.14818	-.16126	.00000
2.000	2.783	5.29448	.06304	-.15127	-.14660	-.16450	.00000
2.000	4.895	5.30565	.20206	-.15989	-.15627	-.17254	.00000
2.000	6.986	5.31551	.32577	-.17271	-.16916	-.18539	.00000
2.000	9.101	5.32789	.47626	-.18553	-.18256	-.19554	.00000
2.000	11.227	5.33940	.66247	-.19034	-.18690	-.20307	.00000
GRADIENT		.00219	.05581	.00046	.00046	.00031	.00000



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 45

LRC UPWT 1056/1073 1A42A/B T1P1

(A06002) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .030

WICH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
2.500	-9.513	5.26197	-.79228	-.14609	-.14113	-.15326	.00000	.00000
2.500	-7.509	5.24637	-.62702	-.13912	-.13412	-.14276	.00000	.00000
2.500	-5.358	5.24285	-.45367	-.12683	-.12176	-.13219	.00000	.00000
2.500	-3.348	5.24141	-.31211	-.12329	-.11819	-.13039	.00000	.00000
2.500	-1.257	5.23978	-.16347	-.11818	-.11307	-.12702	.00000	.00000
2.500	.835	5.24482	-.00468	-.11289	-.10774	-.12171	.00000	.00000
2.500	2.922	5.24873	.14343	-.11461	-.11123	-.12345	.00000	.00000
2.500	5.008	5.25802	.29672	-.12167	-.11833	-.12876	.00000	.00000
2.500	7.098	5.26440	.46717	-.13041	-.12536	-.13928	.00000	.00000
2.500	9.194	5.27320	.63969	-.13567	-.13241	-.14456	.00000	.00000
2.500	11.298	5.28096	.81610	-.14435	-.13762	-.14976	.00000	.00000
GRADIENT		.00129	.07298	.00150	.00125	.00125	.00000	.00000

RUN NO. 2/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WICH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
2.860	-10.589	5.23229	-.87170	-.11862	-.11337	-.12081	.00000	.00000
2.860	-8.602	5.22376	-.74759	-.11670	-.11144	-.11889	.00000	.00000
2.860	-6.462	5.21536	-.58587	-.10903	-.10372	-.11119	.00000	.00000
2.860	-4.459	5.21518	-.41412	-.10132	-.09404	-.10539	.00000	.00000
2.860	-2.385	5.21359	-.27350	-.10137	-.09409	-.10544	.00000	.00000
2.860	-.308	5.21500	-.11648	-.09747	-.09017	-.10154	.00000	.00000
2.860	1.761	5.21832	.05094	-.09366	-.08826	-.10156	.00000	.00000
2.860	3.836	5.22257	.22992	-.09940	-.09404	-.10539	.00000	.00000
2.860	5.917	5.22839	.41106	-.10518	-.09792	-.10734	.00000	.00000
2.860	7.993	5.23338	.58663	-.10904	-.10374	-.11506	.00000	.00000
2.860	10.100	5.23890	.78741	-.11479	-.10952	-.11890	.00000	.00000
GRADIENT		.00094	.07776	.00056	.00028	.00019	.00000	.00000

RUN NO. 4/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

(1A6002) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1

REFERENCE DATA

SREF = 2890.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 108/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSBSC	CPSB88
3.900	-10.539	5.19004	-9.7226	-.03328	.57263	-.07016	.00000	.00000
3.900	-8.473	5.18737	-.82953	-.03329	.56488	-.07270	.00000	.00000
3.900	-6.402	5.18408	-.65146	-.03323	.64703	-.07014	.00000	.00000
3.900	-4.337	5.18271	-.46584	-.03838	.62855	-.07016	.00000	.00000
3.900	-2.280	5.18339	-.35158	-.04093	.55467	-.07017	.00000	.00000
3.900	-.220	5.18346	-.11749	-.04601	.47590	-.07016	.00000	.00000
3.900	1.841	5.18623	.09864	-.05109	.46593	-.06762	.00000	.00000
3.900	3.898	5.18764	.28114	-.05873	.33850	-.06763	.00000	.00000
3.900	5.970	5.19251	.49710	-.06384	.24180	-.06763	.00000	.00000
3.900	8.031	5.19724	.66758	-.06640	.18321	-.06763	.00000	.00000
3.900	10.108	5.20140	.84176	-.06894	.14750	-.07016	.00000	.00000
3.900	GRADIENT	.00002	.09199	-.00247	-.03248	.00037	.00000	.00000

RUN NO. 112/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSBSC	CPSB88
4.630	-9.870	5.14870	-.93799	-.03763	.49238	-.05231	.00000	.00000
4.630	-7.805	5.14733	-.77036	-.03105	.48251	-.05231	.00000	.00000
4.630	-5.737	5.14609	-.59271	-.02446	.56476	-.05231	.00000	.00000
4.630	-3.703	5.14483	-.40355	-.03105	.56147	-.05231	.00000	.00000
4.630	-1.665	5.14354	-.22404	-.03434	.46935	-.04903	.00000	.00000
4.630	.361	5.14420	-.02856	-.03434	.41671	-.04903	.00000	.00000
4.630	2.417	5.14560	.17113	-.03763	.39039	-.04903	.00000	.00000
4.630	4.470	5.14836	.39810	-.04093	.28183	-.04903	.00000	.00000
4.630	6.509	5.15112	.59979	-.04422	.17655	-.04903	.00000	.00000
4.630	8.565	5.15255	.78218	-.04751	.14694	-.04903	.00000	.00000
4.630	10.611	5.15399	.92601	-.05080	.13549	-.04903	.00000	.00000
4.630	GRADIENT	.00045	.09783	-.00113	-.03125	.00032	.00000	.00000



LRC UPWT 1056/1073 1A42A/B TYPISIP2

REFERENCE DATA

SREF = 2690.0000 SQ.FT. WMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 13/ 0 RV/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
1.600	-6.360	-.00721	-.79801	-.21153	-.21163	-.22979	2.90419	-.24943
1.600	-4.393	-.00570	-.56328	-.21481	-.21175	-.22991	2.90141	-.24165
1.600	-2.152	-.00753	-.32227	-.21008	-.21016	-.23782	2.90141	-.26059
1.600	.044	-.00673	-.07386	-.21017	-.20867	-.22842	2.89888	-.25594
1.600	2.256	-.00971	.20767	-.21173	-.21024	-.23314	2.90069	-.26223
1.600	4.489	-.01168	.46222	-.21343	-.21036	-.23642	2.89791	-.26076
1.600	6.716	-.01254	.68177	-.21187	-.20880	-.23328	2.89767	-.27340
1.600	8.988	-.01229	.92010	-.21340	-.21192	-.23481	2.89972	-.28756
1.600	11.270	-.01795	1.17774	-.21993	-.21848	-.23976	2.89754	-.28615
GRADIENT		-.00064	.11658	.00005	.00012	-.00038	-.00035	-.00180

RUN NO. 15/ 0 RV/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
2.000	-10.318	-.00901	-1.33651	-.15902	-.15998	-.18284	3.15275	-.24089
2.000	-8.185	-.00843	-1.13012	-.15588	-.15683	-.17808	3.15148	-.23130
2.000	-5.882	-.00818	-.84900	-.15588	-.15521	-.17325	3.15148	-.22488
2.000	-3.747	-.00786	-.57726	-.15749	-.15521	-.17486	3.14829	-.22649
2.000	-1.520	-.00948	-.29442	-.15749	-.15683	-.17164	3.15148	-.22007
2.000	.661	-.01001	-.00231	-.15428	-.15360	-.16681	3.15148	-.23172
2.000	2.847	-.01320	.25918	-.16069	-.16005	-.17003	3.14988	-.22328
2.000	5.076	-.01241	.55971	-.15909	-.15844	-.17325	3.15148	-.22167
2.000	7.315	-.01444	.86729	-.15749	-.15683	-.17164	3.15148	-.22809
2.000	9.544	-.01940	1.13730	-.15909	-.15844	-.17325	3.15148	-.22809
2.000	11.790	-.01891	1.35961	-.16551	-.16489	-.18129	3.14988	-.22970
GRADIENT		-.00075	.12755	-.00029	-.00051	.00088	.00022	-.00036

RUN NO. 9/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
2.500	-10.022	-.01165	-1.39489	-.11061	-.11221	-.12632	3.67143	-.17185
2.500	-7.884	-.00723	-1.13782	-.10712	-.11046	-.12458	3.67107	-.16835
2.500	-5.625	-.01498	-.85087	-.10529	-.10687	-.12100	3.67364	-.16831
2.500	-3.528	-.01040	-.55980	-.10884	-.10867	-.12279	3.67217	-.16834
2.500	-1.343	-.01710	-.22612	-.11231	-.11392	-.12277	3.67309	-.16657
2.500	.789	-.01194	.04896	-.11241	-.11226	-.11935	3.66823	-.17187
2.500	2.974	-.01598	.39236	-.11238	-.11399	-.12108	3.66896	-.17186
2.500	5.155	-.01475	.71822	-.11064	-.11048	-.12109	3.67225	-.17361
2.500	7.332	-.01622	1.04038	-.11053	-.11038	-.11923	3.67401	-.17531
2.500	9.530	-.02105	1.29636	-.11241	-.11226	-.12285	3.66996	-.17537
2.500	11.712	-.01540	1.48325	-.12115	-.12105	-.13162	3.67170	-.17562
GRADIENT		-.00054	.14475	-.00050	-.00066	.00039	-.00067	-.00073

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 48

LARC UPWT 1056/1073 1A42A/B T1P1S1P2

(A96003) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 11/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
2.860	-11.041	-.01117	-1.45877	-.08738	-.09131	-.10475	4.11003	-.13541
2.860	-8.929	-.00947	-1.25476	-.08365	-.08562	-.09714	4.10502	-.13546
2.860	-6.726	-.00957	-1.00279	-.08177	-.08180	-.09825	4.10304	-.13739
2.860	-4.663	-.01131	-.75871	-.07980	-.08175	-.09328	4.10727	-.13546
2.860	-2.501	-.01519	-.40531	-.08533	-.08538	-.09501	4.11620	-.13151
2.860	-.370	-.01227	-.09473	-.08924	-.08738	-.09506	4.11320	-.13154
2.860	1.755	-.01443	.22367	-.08927	-.08741	-.09316	4.11186	-.13155
2.860	3.885	-.01102	.53774	-.08728	-.08734	-.09310	4.11503	-.13152
2.860	6.041	-.01273	.89408	-.08542	-.08547	-.09316	4.11203	-.13347
2.860	8.198	-.01141	1.19632	-.08535	-.08540	-.09116	4.11537	-.13536
2.860	10.332	-.00977	1.39229	-.08927	-.08934	-.09702	4.10979	-.13732
GRADIENT		.00006	.15090	-.00089	-.00062	.00010	.00053	.00037

RUN NO. 101/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
3.900	-10.846	-.00485	-1.45842	-.06773	.43388	-.03648	-.02646	-.03154
3.900	-8.727	-.00505	-1.31376	-.07027	.36520	-.03394	-.02645	-.03661
3.900	-6.617	-.00662	-1.08425	-.06773	.31427	-.03140	-.02646	-.03661
3.900	-4.498	-.00775	-.78707	-.06517	.34999	-.02885	-.02644	-.03152
3.900	-2.395	-.00988	-.47399	-.06519	.24546	-.02635	-.02647	-.03155
3.900	-.287	-.00901	-.12517	-.06518	.19466	-.02632	-.02645	-.03153
3.900	1.804	-.00813	.22094	-.06773	.17928	-.02635	-.02394	-.03155
3.900	3.921	-.00788	.56438	-.06518	.16913	-.02634	-.02393	-.03154
3.900	6.039	-.00754	.91720	-.06518	.16661	-.02634	-.02392	-.03154
3.900	8.163	-.00733	1.18957	-.06263	.13866	-.02632	-.02391	-.03406
3.900	10.289	-.00694	1.38642	-.06773	.08772	-.02846	-.02645	-.03407
GRADIENT		.00007	.16149	-.00012	-.02033	.00024	.00036	-.00000

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 49

LRC UPWT 1056/1073 1A42A/B T1P1S1P2

(A06003) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 105/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
4.630	-10.113	.01741	-1.38195	-.03254	.44781	-.00222	.01072	-.00240
4.630	-8.028	.01771	-1.20571	-.03254	.34232	-.00222	.01072	-.00240
4.630	-5.930	.01736	-.98023	-.03254	.29975	-.00222	.01072	-.00240
4.630	-3.860	.01627	-.67245	-.03254	.26685	-.00222	.01072	.00038
4.630	-1.776	.01587	-.35367	-.03254	.14511	.00106	.00744	.00088
4.630	.297	.01474	-.00174	-.03254	.16156	-.00222	.00744	-.00240
4.630	2.369	.01553	.33051	-.03252	.12564	.00116	.00755	-.00231
4.630	4.451	.01767	.66016	-.04922	.11905	-.00213	.00755	-.00231
4.630	6.534	.01791	.97730	-.04925	.09575	.00106	.00744	-.00240
4.630	8.623	.01816	1.21462	-.04925	.06943	.00106	.00744	-.00240
4.630	10.702	.01846	1.39410	-.04925	.04311	-.00222	.00744	.00088
4.630	GRADIENT	.00012	.16128	.00032	-.01518	.00001	-.00030	-.00046

DATE 12 JUL 74

PAGE 50

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(A06004) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P2

REFERENCE DATA

SREF = 2090.0000 SQ.FT.
 LREF = 1290.3000 INCHES
 BREF = 1290.3000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 14/ 0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
1.600	-6.587	5.27559	-82473	-21715	-21411	-22432	2.89212	-1.9668
1.600	-4.354	5.26569	-55421	-21725	-21579	-22915	2.89116	-1.9563
1.600	-2.166	5.26206	-30517	-22343	-22042	-23378	2.89236	-2.0610
1.600	.022	5.25859	-07969	-22501	-22200	-22904	2.89236	-2.1083
1.600	2.250	5.26638	.19858	-22501	-22200	-23062	2.89080	-2.2558
1.600	4.477	5.28428	.45063	-22519	-22377	-23712	2.89200	-2.4251
1.600	6.718	5.30032	.69090	-22040	-22054	-23705	2.88959	-2.6764
1.600	8.974	5.31417	.92974	-22035	-21890	-23867	2.90828	-2.9155
1.600	11.257	5.33105	1.19501	-22924	-22785	-25239	2.91418	-3.0374
GRADIENT		.00188	.11340	-.00079	-.00079	-.00058	.00001	-.00534

RUN NO. 16/ 0 RNVL = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
2.000	-10.315	5.32091	-1.34793	-17995	-17942	-19095	3.14670	-2.2423
2.000	-8.178	5.30495	-1.13464	-17193	-17135	-18612	3.14670	-2.1846
2.000	-5.884	5.28884	-.86213	-16872	-16812	-18129	3.14670	-1.9279
2.000	-3.738	5.27920	-.57546	-17032	-16973	-17647	3.14670	-1.8156
2.000	-1.516	5.27713	-.29886	-17032	-16973	-17325	3.14670	-1.7995
2.000	.657	5.27524	-.00200	-16551	-16328	-17164	3.14670	-2.0563
2.000	2.850	5.28462	.27271	-17032	-16812	-17003	3.14670	-2.0242
2.000	5.075	5.29749	.57138	-16711	-16651	-17325	3.14670	-2.1204
2.000	7.321	5.31263	.87940	-16390	-16167	-17647	3.14670	-2.3451
2.000	9.547	5.32672	1.15153	-16872	-16812	-18451	3.14670	-2.4574
2.000	11.791	5.33188	1.36930	-17193	-17135	-19095	3.14670	-2.4574
GRADIENT		.00065	.12952	.00022	.00051	.00095	.00000	-.00402

RUN NO. 10/ 0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
2.500	-9.996	5.26203	-1.37736	-11940	-12280	-13513	3.66668	-1.1786
2.500	-7.881	5.25763	-1.15449	-11583	-11922	-12980	3.67254	-1.1683
2.500	-5.642	5.24509	-.87513	-11595	-11758	-12641	3.66831	-1.4392
2.500	-3.595	5.23879	-.61324	-11933	-11922	-12454	3.67427	-1.3508
2.500	-1.356	5.23215	-.25343	-11941	-11930	-12461	3.67152	-1.3689
2.500	.789	5.24280	.04841	-11421	-11407	-12290	3.66986	-1.1573
2.500	2.959	5.24414	.35379	-11758	-11746	-12278	3.67254	-1.1573
2.500	5.145	5.24871	.70165	-11583	-11570	-12278	3.67427	-1.1608
2.500	7.347	5.25983	1.04759	-11761	-11573	-12807	3.67162	-1.1659
2.500	9.531	5.26585	1.31574	-12119	-11933	-12990	3.66521	-1.1788
2.500	11.724	5.27016	1.49167	-12463	-12455	-13687	3.66376	-1.16486
GRADIENT		.00121	.14720	.00048	.00048	.00032	-.00032	-.00408



DATE 12 JUL 74

PAGE 51

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(A0600A) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P2

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO.	12/ 0	RV/L = 2.50	GRADIENT INTERVAL = -5.00/ 5.00
MACH	ALPHA	BETA	L/D
2.860	-11.001	5.25369	-1.44767
2.860	-8.955	5.24503	-1.26696
2.860	-6.736	5.23972	-1.04642
2.860	-4.661	5.23661	-.77217
2.860	-2.504	5.23281	-.44376
2.860	-.370	5.22666	-.10252
2.860	1.741	5.23339	.19424
2.860	3.897	5.23702	.54065
2.860	6.054	5.24272	.91723
2.860	8.204	5.24674	1.20308
2.860	10.334	5.24930	1.39766
GRADIENT		.00006	.15279

RUN NO. 12/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
-.08736	-.09131	-.10475	4.10448	-.12580
-.08727	-.09121	-.10081	4.10964	-.12959
-.08727	-.09121	-.09695	4.11346	-.12575
-.09115	-.09123	-.09697	4.11403	-.11615
-.09310	-.09320	-.09701	4.11220	-.10848
-.08917	-.08925	-.09500	4.11654	-.11611
-.09312	-.09128	-.09702	4.10945	-.12195
-.09309	-.09125	-.09699	4.11129	-.12577
-.09119	-.09126	-.09702	4.10979	-.12579
-.09117	-.09126	-.09893	4.10888	-.12962
-.09492	-.09309	-.10076	4.10850	-.13341
-.00018	.00009	-.00000	-.00038	-.00153

RUN NO. 102/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
-.06518	.59941	-.03394	-.02391	-.03153
-.06317	.50021	-.03393	-.02644	-.03406
-.06772	.46709	-.03139	-.02391	-.03152
-.06773	.16444	-.02887	-.02392	-.03153
-.06773	.3123	-.02888	-.02140	-.03155
-.06772	.30672	-.03139	-.01882	-.03152
-.07028	.25824	-.03141	-.01884	-.03154
-.06772	.21762	-.03139	-.01882	-.03151
-.06773	.09276	-.03142	-.01886	-.03155
-.06772	.08778	-.02884	-.02135	-.03151
-.07028	.11060	-.03141	-.02139	-.03154
-.00012	-.03166	-.00036	.00061	.00000

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 12 JUL 74

(A68004) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P2

PARAMETRIC DATA

REFERENCE DATA

BETA = 5.000 RUDDER = .000

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 106/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPTC1	CPTC2	CPTP	CPSRBC	CPSRBB
4.630	-10.119	5.15284	-1.39037	-.04922	.59024	-.00213	.00755	-.00231
4.630	-8.020	5.15305	-1.21342	-.04922	.49798	-.00213	.00755	-.00559
4.630	-5.941	5.15214	-.97803	-.04922	.40242	-.00213	.00755	-.00559
4.630	-3.857	5.15033	-.68860	-.03252	.43208	-.00213	.00755	-.00231
4.630	-1.778	5.14846	-.38486	-.03252	.40901	-.00541	.01083	-.00559
4.630	.299	5.14869	-.01750	-.03252	.20802	-.00213	.01083	.00098
4.630	2.372	5.15018	.28105	-.03252	.27392	-.00213	.01083	.00098
4.630	4.452	5.15250	.67742	-.03252	.12235	-.00213	.01083	-.00231
4.630	6.528	5.15285	.96608	-.03252	.07292	-.00213	.01083	-.00231
4.630	8.618	5.15562	1.20053	-.03252	.08610	-.00213	.01083	.00098
4.630	10.700	5.15645	1.36498	-.03252	.06963	-.00541	.01083	.00098
GRADIENT		.00029	.16361	.00000	-.03634	.00016	.00032	.00063

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 53

LRC UPWT 1056/1073 1A42A/B T1P101

(A98005) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

BETA = .000 RUDDER = .000

PARAMETRIC DATA

RUN NO. 23/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CPOB	CPTB	CPOM88	CPSR8C	CHR (1)	CHR (2)
1.700	-1.496	-.01212	-3.1829	.00000	-.20319	-.20706	-.27883	-.18876	.00000	.00391	.00000
1.700	-.399	-.01444	-.18765	.00000	-.20297	-.20685	-.27391	-.19324	.00000	.00391	.00000
1.700	1.811	-.01007	.10639	.00000	-.20294	-.21153	-.26718	-.20576	.00000	.00437	.00000
1.700	4.022	-.01351	.38627	.00000	-.20906	-.21769	-.26389	-.21632	.00000	.00413	.00000
1.700	6.238	-.01702	.65275	.00000	-.21809	-.22362	-.25980	-.21923	.00000	.00438	.00000
1.700	8.467	-.01828	.86075	.00000	-.22297	-.22694	-.25102	-.22095	.00000	.00389	.00000
1.700	10.689	-.02095	.99775	.00000	-.22922	-.23481	-.23991	-.22715	.00000	.00438	.00000
1.700	GRADIENT	.00004	.12852	.00000	-.00100	-.00202	.00268	-.00513	.00000	.00006	.00000

RUN NO. 21/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CPOB	CPTB	CPOM88	CPSR8C	CHR (1)	CHR (2)
2.000	-6.353	-.02207	-.83563	.00000	-.18263	-.18882	-.25464	-.17185	.00000	.00222	.00000
2.000	-4.216	-.02346	-.63530	.00000	-.18876	-.19661	-.25127	-.17792	.00000	.00247	.00000
2.000	-1.971	-.02570	-.39557	.00000	-.19355	-.19821	-.24163	-.18426	.00000	.00223	.00000
2.000	.183	-.02597	-.13787	.00000	-.19518	-.19985	-.23041	-.18905	.00000	.00198	.00000
2.000	2.394	-.02660	.13441	.00000	-.19523	-.19989	-.22082	-.19228	.00000	.00247	.00000
2.000	4.580	-.02847	.40015	.00000	-.19527	-.20154	-.21284	-.19391	.00000	.00272	.00000
2.000	6.782	-.02878	.64343	.00000	-.19852	-.20641	-.20486	-.19713	.00000	.00272	.00000
2.000	9.000	-.03255	.82762	.00000	-.20330	-.21122	-.19843	-.20028	.00000	.00247	.00000
2.000	11.206	-.04213	.95662	.00000	-.20976	-.21450	-.18887	-.20194	.00000	.00247	.00000
2.000	GRADIENT	-.00077	.11844	.00000	-.00067	-.00053	.00445	-.00182	.00000	.00003	.00000

RUN NO. 17/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CPOB	CPTB	CPOM88	CPSR8C	CHR (1)	CHR (2)
2.500	-9.912	.00367	-1.06508	.00000	-.12522	-.13219	-.15675	-.10969	.00000	.00135	.00000
2.500	-8.317	-.00261	-.96283	.00000	-.13388	-.14267	-.16020	-.10958	.00000	.00108	.00000
2.500	-6.063	-.01062	-.81003	.00000	-.13044	-.13920	-.15849	-.11139	.00000	.00162	.00000
2.500	-3.956	-.01891	-.62698	.00000	-.13214	-.13740	-.15494	-.11133	.00000	.00027	.00000
2.500	-1.767	-.02908	-.41261	.00000	-.13554	-.13906	-.14959	-.11990	.00000	.00000	.00000
2.500	.397	-.03222	-.17468	.00000	-.14062	-.14261	-.14435	-.13036	.00000	-.00027	.00000
2.500	2.568	-.03263	.08663	.00000	-.14608	-.14790	-.13732	-.13731	.00000	.00000	.00000
2.500	4.744	-.04225	.34743	.00000	-.14958	-.14966	-.13206	-.14078	.00000	.00027	.00000
2.500	6.910	-.04025	.57829	.00000	-.15321	-.15331	-.12871	-.14266	.00000	.00081	.00000
2.500	9.084	-.04281	.77181	.00000	-.15499	-.15509	-.12349	-.14443	.00000	-.00081	.00000
2.500	11.276	-.04811	.93464	.00000	-.15845	-.15857	-.11468	-.14613	.00000	-.00027	.00000
2.500	GRADIENT	-.00231	.11263	.00000	-.00209	-.00153	.00267	-.00351	.00000	-.00000	.00000

LRC UPWT 1056/1073 1A42A/B TIP101

(1A6005) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 19/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR8B	CPOC	CPOB	CPTB	CPOM8B	CPSR8C	CHR (1)	CHR (2)
2.860	-11.479	-.00119	-1.04760	.00000	-.10899	-.11532	-.12274	-.08538	.00000	.00237	.00000
2.860	-9.419	.00241	-.96613	.00000	-.11276	-.11718	-.12461	-.08718	.00000	.00208	.00000
2.860	-7.175	-.00825	-.85664	.00000	-.10707	-.11724	-.12466	-.08919	.00000	.00178	.00000
2.860	-5.096	-.01070	-.70522	.00000	-.10701	-.11526	-.12462	-.09253	.00000	.00119	.00000
2.860	-2.913	-.01202	-.54020	.00000	-.11275	-.11716	-.12266	-.09671	.00000	.00089	.00000
2.860	-.803	-.01573	-.32647	.00000	-.11472	-.11914	-.11885	-.09868	.00000	.00119	.00000
2.860	1.345	-.02311	-.07533	.00000	-.12050	-.12302	-.11116	-.10632	.00000	.00059	.00000
2.860	3.467	-.02122	.16356	.00000	-.12235	-.12489	-.10721	-.10814	.00000	.00119	.00000
2.860	5.616	-.02783	.43046	.00000	-.12435	-.12496	-.10346	-.11014	.00000	.00059	.00000
2.860	7.772	-.03028	.66545	.00000	-.12623	-.12685	-.09954	-.11200	.00000	.00030	.00000
2.860	9.916	-.02692	.85408	.00000	-.12815	-.12879	-.09568	-.11199	.00000	.00000	.00000
GRADIENT		-.00164	.11091	.00000	-.00163	-.00127	.00214	-.00197	.00000	.00001	.00000

RUN NO. 113/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR8B	CPOC	CPOB	CPTB	CPOM8B	CPSR8C	CHR (1)	CHR (2)
3.900	-11.210	-.00401	-.96522	.00000	-.07033	-.08260	-.06905	-.08204	.00000	.00000	.00446
3.900	-9.105	-.00698	-.89855	.00000	-.07034	-.08260	-.06906	-.08204	.00000	.00000	.00446
3.900	-6.992	-.00436	-.83275	.00000	-.07033	-.06514	-.07413	-.08204	.00000	.00000	.00497
3.900	-4.860	-.00615	-.71143	.00000	-.06798	-.06514	-.07412	-.08204	.00000	.00000	.00497
3.900	-2.729	-.00794	-.54338	.00000	-.07033	-.08260	-.07413	-.08204	.00000	.00000	.00447
3.900	-.658	-.00853	-.34192	.00000	-.07034	-.06516	-.06907	-.08453	.00000	.00000	.00347
3.900	1.475	-.00722	-.13341	.00000	-.07033	-.06514	-.06398	-.08458	.00000	.00000	.00337
3.900	3.585	-.00572	.12259	.00000	-.07563	-.06769	-.06398	-.08458	.00000	.00000	.00397
3.900	5.710	-.00360	.39060	.00000	-.07563	-.06514	-.06145	-.08458	.00000	.00000	.00397
3.900	7.820	-.00344	.60917	.00000	-.07563	-.06769	-.06144	-.08458	.00000	.00000	.00348
3.900	9.914	-.00147	.79664	.00000	-.07818	-.07024	-.05638	-.08458	.00000	.00000	.00348
GRADIENT		.00010	.09851	.00000	-.00073	-.00036	.00144	-.00036	.00000	.00000	-.00012

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (IA42A/B)

DATE 12 JUL 74

(A66005) (01 MAR 74)

LRC UPWT 1056/1073 IA42A/B T1P101

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2699.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 117/ 0 RNL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CPOB	CPT8	CPOMS8	CPSR8C	CHR (1)	CHR (2)
4.630	-10.392	-.00167	-.91863	.00000	-.04633	-.04266	-.05092	-.06114	.00000	.00000	.00364
4.630	-8.326	-.00768	-.85425	.00000	-.04962	-.04266	-.05092	-.06441	.00000	.00000	.00364
4.630	-6.271	-.00567	-.79699	.00000	-.04962	-.04266	-.05092	-.06769	.00000	.00000	.00364
4.630	-4.124	-.00313	-.66902	.00000	-.04962	-.04594	-.04765	-.06441	.00000	.00000	.00364
4.630	-2.080	-.00362	-.51441	.00000	-.04962	-.04266	-.04765	-.06441	.00000	.00000	.00364
4.630	.016	-.00349	-.29245	.00000	-.03291	-.04594	-.04765	-.06769	.00000	.00000	.00320
4.630	2.064	-.00337	-.05132	.00000	-.03291	-.04594	-.04765	-.06769	.00000	.00000	.00320
4.630	4.182	-.00207	.18701	.00000	-.03291	-.04594	-.04765	-.06769	.00000	.00000	.00320
4.630	6.253	-.00135	.42101	.00000	-.03291	-.04594	-.04765	-.06769	.00000	.00000	.00256
4.630	8.324	-.00529	.64093	.00000	-.03291	-.04594	-.04438	-.06769	.00000	.00000	.00256
4.630	10.410	-.00110	.81853	.00000	-.03291	-.04594	-.04438	-.06769	.00000	.00000	.00256
4.630	GRADIENT	.00011	.10472	.00000	-.00048	-.00016	-.00000	-.00032	.00000	.00000	-.00009

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 96

LRC UPWT 1056/1073 1A42A/B T1P101

(146006) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 24/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
1.700	-1.526	5.75534	-3.1249	.00000	-21826	-22220	-29213	-20533	.00000	.07204	.00000
1.700	-4.411	5.75208	-1.7808	.00000	-22140	-22535	-28895	-20688	.00000	.06986	.00000
1.700	1.788	5.75241	.08932	.00000	-22774	-23490	-28108	-21160	.00000	.06741	.00000
1.700	4.016	5.74768	.38240	.00000	-23092	-23810	-27163	-21008	.00000	.06059	.00000
1.700	6.226	5.74689	.63096	.00000	-22933	-23491	-26213	-20850	.00000	.05500	.00000
1.700	8.454	5.73797	.86696	.00000	-22003	-22239	-24015	-20553	.00000	.05083	.00000
1.700	10.699	5.76612	1.04377	.00000	-22790	-23189	-22278	-20709	.00000	.04597	.00000
GRADIENT		-0.0118	.12517	.00000	-0.0233	-0.0302	.00372	-0.0097	.00000	-0.0197	.00000

RUN NO. 22/ 0 RVL = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.000	-6.381	5.73955	-8.8824	.00000	-17464	-18239	-23541	-18454	.00000	.07135	.00000
2.000	-4.231	5.72985	-6.1460	.00000	-18575	-19036	-23696	-18288	.00000	.07088	.00000
2.000	-2.039	5.71895	-3.8401	.00000	-20030	-20659	-24189	-19574	.00000	.06908	.00000
2.000	.166	5.71157	-1.2830	.00000	-20826	-21620	-23385	-19728	.00000	.06737	.00000
2.000	2.363	5.70537	.13574	.00000	-20983	-21617	-22261	-19250	.00000	.06393	.00000
2.000	4.577	5.69869	.42038	.00000	-20510	-21141	-21465	-18147	.00000	.05897	.00000
2.000	6.786	5.70125	.66110	.00000	-20184	-20653	-20658	-17981	.00000	.05455	.00000
2.000	9.004	5.71128	.97249	.00000	-20192	-20501	-19545	-17833	.00000	.05008	.00000
2.000	11.231	5.71944	1.03515	.00000	-20512	-20982	-18584	-17991	.00000	.04293	.00000
GRADIENT		-0.0345	.11762	.00000	-0.0219	-0.0234	.00290	.00023	.00000	-0.0132	.00000

RUN NO. 18/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.500	-9.923	5.68661	-1.06386	.00000	-13218	-14272	-14796	-13048	.00000	.05484	.00000
2.500	-8.341	5.66919	-0.97376	.00000	-12694	-13744	-15498	-13048	.00000	.05457	.00000
2.500	-6.086	5.63189	-0.80570	.00000	-12869	-13392	-15673	-12874	.00000	.05403	.00000
2.500	-3.972	5.62305	-0.62098	.00000	-13393	-13920	-15498	-12874	.00000	.04836	.00000
2.500	-1.783	5.61927	-0.39703	.00000	-14093	-14624	-15498	-13395	.00000	.05511	.00000
2.500	.385	5.59803	-0.15212	.00000	-14968	-15151	-14971	-13915	.00000	.04782	.00000
2.500	2.559	5.59946	.10904	.00000	-14793	-15151	-14094	-13395	.00000	.04701	.00000
2.500	4.748	5.58880	.40964	.00000	-14443	-14624	-13568	-12701	.00000	.04241	.00000
2.500	6.933	5.58797	.65699	.00000	-14793	-14975	-12567	-12874	.00000	.04350	.00000
2.500	9.119	5.58097	.87430	.00000	-13329	-13329	-12182	-13237	.00000	.03884	.00000
2.500	11.296	5.58963	1.02536	.00000	-15674	-15862	-11650	-13751	.00000	.03401	.00000
GRADIENT		-0.0405	.11787	.00000	-0.0128	-0.0089	.00242	.00016	.00000	-0.0092	.00000



DATE 12 JUL 74

PAGE 57

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

LRC UPWT 1056/1073 1A42A/B T1101

(A46006) (01 MAR 74)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 20/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CPOB	CPTB	CPKNSB	CPSR8C	CHR (1)	CHR (2)
2.060	-11.496	5.59116	-1.04988	.00000	-1.0503	-1.1134	-1.1879	-.08904	.00000	.05082	.00000
2.060	-9.417	5.56762	-.98779	.00000	-1.0129	-1.0757	-1.2080	-.08917	.00000	.04867	.00000
2.060	-7.194	5.53477	-.85392	.00000	-1.0124	-1.0946	-1.2076	-.09293	.00000	.04633	.00000
2.060	-5.102	5.52541	-.69840	.00000	-1.0502	-1.1327	-1.1878	-.09667	.00000	.04637	.00000
2.060	-2.967	5.51370	-.51166	.00000	-1.1087	-1.1721	-1.1499	-.10058	.00000	.04394	.00000
2.060	-.804	5.49719	-.27748	.00000	-1.1857	-1.2302	-1.1501	-.10441	.00000	.04363	.00000
2.060	1.337	5.49751	-.02739	.00000	-1.2051	-1.2497	-1.1310	-.10634	.00000	.04095	.00000
2.060	3.473	5.49563	.19882	.00000	-1.1854	-1.1912	-1.0341	-.09865	.00000	.04069	.00000
2.060	5.643	5.49064	.51324	.00000	-1.2049	-1.2108	-1.0953	-.09868	.00000	.03889	.00000
2.060	7.788	5.49419	.75935	.00000	-1.2434	-1.2303	-1.0897	-.10061	.00000	.03680	.00000
2.060	9.948	5.49309	.94905	.00000	-1.2628	-1.2691	-1.08615	-.10635	.00000	.03471	.00000
2.060	GRADIENT	-.00252	.11097	.00000	-.00117	-.00036	.00171	.00018	.00000	-.00058	.00000

RUN NO. 114/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CPOB	CPTB	CPKNSB	CPSR8C	CHR (1)	CHR (2)
3.900	-11.257	5.42625	-.95314	.00000	-.07055	-.06517	-.06907	-.08459	.00000	.00000	.04118
3.900	-9.111	5.41949	-.89431	.00000	-.07310	-.06516	-.07160	-.08205	.00000	.00000	.03871
3.900	-7.001	5.41207	-.82398	.00000	-.07310	-.06517	-.07161	-.08205	.00000	.00000	.03671
3.900	-4.888	5.40521	-.69552	.00000	-.07310	-.06771	-.06907	-.08205	.00000	.00000	.03523
3.900	-2.757	5.39516	-.53201	.00000	-.07310	-.06517	-.07161	-.08205	.00000	.00000	.03423
3.900	-.653	5.38760	-.33687	.00000	-.07310	-.06517	-.06908	-.08459	.00000	.00000	.03324
3.900	1.475	5.38139	-.09249	.00000	-.07564	-.06771	-.06907	-.08459	.00000	.00000	.03126
3.900	3.576	5.37309	.17031	.00000	-.07564	-.06771	-.06654	-.08459	.00000	.00000	.02928
3.900	5.711	5.36927	.42765	.00000	-.07565	-.07027	-.06655	-.08459	.00000	.00000	.02777
3.900	7.811	5.36620	.66697	.00000	-.07819	-.07026	-.06401	-.08712	.00000	.00000	.02629
3.900	9.926	5.36504	.85968	.00000	-.07819	-.07280	-.06147	-.08712	.00000	.00000	.02283
3.900	GRADIENT	-.00369	.10258	.00000	-.00036	-.00012	.00036	-.00036	.00000	.00000	-.00070

LRC UPMT 1056/1073 1A42A/B T1P101

(A86006) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 90.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 118/ 0 RVAL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WICH	ALPHA	BETA	L/O	CPSRB9	CPOC	CPOB	CPTB	CPOH8B	CPSRBC	CHR (1)	CHR (2)
4.630	-10.410	5.33731	-.91965	.00000	-.04962	-.04266	-.05092	-.06441	.00000	.00000	.03350
4.630	-8.334	5.33113	-.84939	.00000	-.04962	-.04266	-.05092	-.06441	.00000	.00000	.03010
4.630	-6.253	5.32867	-.77806	.00000	-.05291	-.04594	-.04765	-.06441	.00000	.00000	.02882
4.630	-4.160	5.32362	-.63767	.00000	-.05291	-.04266	-.05092	-.06769	.00000	.00000	.02754
4.630	-2.072	5.31732	-.46854	.00000	-.04962	-.04266	-.04765	-.06441	.00000	.00000	.02626
4.630	.014	5.30845	-.27208	.00000	-.05291	-.04594	-.05092	-.06769	.00000	.00000	.02562
4.630	2.103	5.30166	-.01723	.00000	-.05289	-.04591	-.04762	-.06769	.00000	.00000	.02437
4.630	4.193	5.29592	.23414	.00000	-.05291	-.04922	-.04765	-.06769	.00000	.00000	.02306
4.630	6.262	5.29209	.46157	.00000	-.05291	-.04922	-.04765	-.07096	.00000	.00000	.02242
4.630	8.350	5.28890	.69753	.00000	-.05291	-.04594	-.04438	-.06769	.00000	.00000	.02113
4.630	10.443	5.28428	.88919	.00000	-.05619	-.04594	-.04438	-.07096	.00000	.00000	.01921
GRADIENT		-.00340	.10512	.00000	-.00016	-.00078	.00031	-.00016	.00000	.00000	-.00552



TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 12 JUL 74

(A66007) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0130 SCALE

BETA = .000 RUDDER = .000

RUN NO. 37/ 0 RN/L = 1.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CP0B	CPTB	CPW88	CPSRBC	CHR (1)	CHR (2)
2.000	-4.278	-.01736	-.66362	-.26164	-.20378	-.20104	-.24610	-.18909	-.23731	.00411	.00000
2.000	-2.032	-.01500	-.42011	-.27499	-.21119	-.20915	-.24083	-.19446	-.25063	.00370	.00000
2.000	1.155	-.01744	-.16198	-.28799	-.21991	-.21658	-.23231	-.20172	-.25817	.00330	.00000
2.000	2.347	-.01732	.10890	-.28816	-.22159	-.21961	-.22194	-.20475	-.26108	.00329	.00000
2.000	4.543	-.01988	.38476	-.28544	-.22415	-.22218	-.21381	-.21256	-.25834	.00329	.00000
2.000	6.746	-.02007	.63899	-.28281	-.21821	-.21688	-.20386	-.20998	-.25307	.00370	.00000
2.000	8.961	-.02581	.85637	-.28566	-.21126	-.21190	-.20825	-.20772	-.24804	.00287	.00000
2.000	11.204	-.02643	1.00648	-.28827	-.20384	-.20645	-.20881	-.20234	-.24796	.00287	.00000
GRADIENT		-.00033	.12094	-.00276	-.00214	-.00239	.00379	-.00260	-.00239	-.00009	.00000

RUN NO. 29/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CP0B	CPTB	CPW88	CPSRBC	CHR (1)	CHR (2)
2.500	-9.263	-.00638	-1.17931	-.18850	-.13231	-.13645	-.18957	-.11977	-.18115	.00243	.00000
2.500	-6.809	-.01804	-.99123	-.19375	-.13951	-.13997	-.16781	-.12671	-.18639	.00108	.00000
2.500	-4.534	-.02050	-.75162	-.19378	-.14483	-.14356	-.16435	-.13373	-.18642	.00270	.00000
2.500	-2.184	-.02665	-.48098	-.19378	-.15183	-.15060	-.15910	-.13895	.18294	-.00189	.00000
2.500	.099	-.03193	-.21819	-.19378	-.15531	-.15411	-.15384	-.14414	.18294	.00108	.00000
2.500	2.395	-.03688	.05688	-.19206	-.15713	-.15593	-.14865	-.14595	.18298	.00378	.00000
2.500	4.697	-.03267	.35495	-.19030	-.15711	-.15415	-.14337	-.14939	.17948	.00270	.00000
2.500	7.029	-.04066	.66010	-.18509	-.16064	-.15771	-.13992	-.15117	.17429	.00200	.00000
2.500	9.337	-.03420	.91508	-.18509	-.16065	-.15772	-.13818	-.15291	.17255	.00054	.00000
2.500	11.719	-.03878	1.11297	-.19030	-.15361	-.15063	-.13635	-.14418	-.17599	-.00027	.00000
GRADIENT		-.00150	.11939	.00038	-.00130	-.00115	.00227	-.00166	.00060	.00001	.00000

RUN NO. 33/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CP0B	CPTB	CPW88	CPSRBC	CHR (1)	CHR (2)
2.860	-12.279	-.01055	-1.25827	-.14410	-.10376	-.09862	-.13491	-.07806	-.14366	.00267	.00000
2.860	-10.042	-.01647	-1.17069	-.14793	-.10951	-.10440	-.13297	-.08185	-.14537	.00237	.00000
2.860	-7.728	-.01596	-1.03094	-.14986	-.11143	-.10827	-.12912	-.08757	-.14749	.00208	.00000
2.860	-5.504	-.02132	-.83747	-.15176	-.11522	-.11207	-.12522	-.09322	-.14938	.00178	.00000
2.860	-3.210	-.02364	-.58440	-.14984	-.12100	-.11596	-.12138	-.10087	-.14555	.00148	.00000
2.860	-.971	-.02810	-.33581	-.15177	-.12295	-.11985	-.11947	-.10471	-.14556	.00119	.00000
2.860	1.260	-.03133	-.08625	-.14794	-.12488	-.12179	-.11363	-.10854	-.14557	.00119	.00000
2.860	3.483	-.02758	.17644	-.14409	-.12487	-.12178	-.11369	-.11234	-.14365	.00119	.00000
2.860	5.713	-.02949	.47834	-.14217	-.12488	-.12179	-.10985	-.11426	-.13982	.00119	.00000
2.860	7.974	-.03784	.77398	-.14216	-.12678	-.12370	-.10404	-.11423	-.13789	.00000	.00000
2.860	10.285	-.03739	1.03677	-.14025	-.12681	-.12180	-.10215	-.11427	-.13408	-.00059	.00000
GRADIENT		-.00068	.11349	.00094	-.00061	-.00087	.00121	-.00171	.00025	-.00004	.00000

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 60

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

(A6007) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. 1MRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES 1MRP = .0000 INCHES
 BREF = 1290.3000 INCHES 2MRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 119/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CPOB	CPTB	CPOMSB	CPSR8C	CHR (1)	CHR (2)
3.900	-11.812	-.00330	-1.17839	-.07426	-.06013	-.03732	-.07850	-.08694	-.06707	.00000	-.10569
3.900	-9.611	-.00336	-1.12188	-.07679	-.06322	-.06240	-.07650	-.08440	-.06706	.00000	-.10571
3.900	-7.414	-.00450	-1.03138	-.07679	-.06777	-.06495	-.07397	-.08948	-.06959	.00000	-.10568
3.900	-5.212	-.00507	-.87556	-.07933	-.07032	-.06749	-.07144	-.08694	-.06959	.00000	-.10568
3.900	-3.013	-.00611	-.67609	-.07933	-.07032	-.06749	-.07143	-.08694	-.06958	.00000	-.10571
3.900	-.828	-.00448	-.42663	-.07932	-.07286	-.06748	-.06889	-.08694	-.06958	.00000	-.10573
3.900	1.351	-.00958	-.16256	-.07679	-.07286	-.07003	-.06636	-.08947	-.06958	.00000	-.10573
3.900	3.517	-.01197	.11787	-.07679	-.07541	-.07258	-.06637	-.08948	-.06959	.00000	-.10568
3.900	5.690	-.01179	.41531	-.07426	-.07542	-.07004	-.06385	-.08948	-.06960	.00000	-.10564
3.900	7.872	-.01294	.70996	-.07426	-.07541	-.07004	-.06384	-.08947	-.06959	.00000	-.10567
3.900	10.081	-.01062	.97924	-.07678	-.07285	-.06748	-.06128	-.08947	-.06957	.00000	-.10575
GRADIENT		-.00104	.12154	.00047	-.00070	-.00082	.00081	-.00047	-.00000	.00000	.00000

RUN NO. 124/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CROC	CPOB	CPTB	CPOMSB	CPSR8C	CHR (1)	CHR (2)
4.630	-10.957	-.00548	-1.14350	-.05112	-.03905	-.03550	-.04430	-.06423	-.04907	.00000	.00257
4.630	-8.805	-.00604	-1.06812	-.05110	-.04231	-.03546	-.04426	-.06095	-.04905	.00000	.00257
4.630	-6.660	-.00401	-.98927	-.05112	-.04234	-.03879	-.04430	-.06423	-.04907	.00000	.00257
4.630	-4.532	-.00266	-.83551	-.05112	-.04563	-.03879	-.04430	-.06751	-.04907	.00000	.00192
4.630	-2.388	-.00431	-.63558	-.05438	-.04560	-.04204	-.04426	-.06423	-.04905	.00000	.00257
4.630	-.255	-.00478	-.39760	-.05440	-.04563	-.04208	-.04430	-.06423	-.04907	.00000	.00257
4.630	1.870	-.00526	-.13158	-.05112	-.04893	-.04208	-.04430	-.06423	-.05233	.00000	.00192
4.630	4.001	-.00510	.16643	-.05112	-.04893	-.04208	-.04430	-.06751	-.04907	.00000	.00128
4.630	6.117	-.00568	.45780	-.05112	-.04893	-.04208	-.04430	-.06751	-.04907	.00000	.00164
4.630	8.262	-.00597	.75899	-.05112	-.04893	-.04208	-.04102	-.06751	-.04907	.00000	.00164
4.630	10.397	-.00710	1.03172	-.05112	-.04893	-.04208	-.04102	-.06751	-.04907	.00000	.00164
GRADIENT		-.00027	.11760	.00015	-.00047	-.00031	-.00000	.00000	-.00015	.00000	-.00009



DATE 12 JUL 74

PAGE 61

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(A06008) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B TIP1SIP201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

BETA = 5.000 RUDDER = .000

RUN NO. 32/ 0 RVL = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.000	-4.282	5.40422	-69754	-21374	-20842	-20370	-24875	-19963	-20546	.06204	.00000
2.000	-2.545	5.39263	-42809	-23210	-21611	-21142	-24318	-20194	-20780	.06094	.00000
2.000	.151	5.38153	-16269	-24274	-21875	-21675	-22979	-20455	-21043	.05972	.00000
2.000	2.346	5.37616	.11572	-25360	-22432	-22236	-21934	-20747	-21866	.05879	.00000
2.000	4.550	5.36998	.38954	-25357	-22694	-22500	-21396	-20743	-21862	.05675	.00000
2.000	6.744	5.37784	.63699	-25353	-22957	-22763	-21124	-20738	-21592	.05800	.00000
2.000	8.969	5.38279	.86402	-24819	-22421	-22225	-20854	-20735	-20792	.05554	.00000
2.000	11.206	5.38757	1.03294	-24825	-21631	-21698	-21130	-19952	-20801	.04975	.00000
2.000	GRADIENT	-.00385	.12323	-.00459	-.00205	-.00243	.00423	-.00096	-.00168	-.00058	.00000

RUN NO. 31/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.500	-9.268	5.71018	-1.18497	-1.1710	-1.141	-1.3661	-1.7492	-1.2516	-1.1511	.05422	.00000
2.500	-6.817	5.66614	-.98276	-1.7280	-1.4134	-1.4005	-1.7312	-1.2654	-1.6028	.03265	.00000
2.500	-4.541	5.63800	-.77660	-1.7277	-1.4478	-1.4000	-1.6783	-1.3368	-1.5849	.04377	.00000
2.500	-2.181	5.59748	-.48285	-1.7460	-1.4665	-1.4364	-1.6442	-1.3556	-1.5512	.04073	.00000
2.500	.115	5.58961	-.19444	-1.7458	-1.5186	-1.4712	-1.5563	-1.4072	-1.5160	.03805	.00000
2.500	2.409	5.57695	.10397	-1.7979	-1.5707	-1.5235	-1.4858	-1.4415	-1.5505	.03969	.00000
2.500	4.720	5.56628	.42232	-1.8154	-1.5982	-1.5763	-1.4332	-1.4588	-1.5679	.04455	.00000
2.500	7.035	5.57012	.72023	-1.7287	-1.6239	-1.6122	-1.3992	-1.4771	-1.4643	.04638	.00000
2.500	9.366	5.57495	.97055	-1.6759	-1.6410	-1.6294	-1.3636	-1.4939	-1.3767	.04237	.00000
2.500	11.745	5.56797	1.17595	-1.6758	-1.5884	-1.5765	-1.3634	-1.4591	-1.3591	.04534	.00000
2.500	GRADIENT	-.00711	.12913	-.00098	-.0016C	-.00190	.00280	-.00143	.00015	.00002	.00000

RUN NO. 34/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.860	-12.271	5.64652	-1.23878	-1.2872	-.10182	-.09474	-.13490	-.07995	-.11491	.05223	.00000
2.860	-10.077	5.61671	-1.17225	-1.5638	-.10754	-.10049	-.13487	-.08179	-.12830	.04900	.00000
2.860	-7.706	5.58937	-1.02235	-1.4022	-.10754	-.10242	-.13487	-.08751	-.13213	.04930	.00000
2.860	-5.538	5.57193	-.84262	-1.3832	-.10949	-.10245	-.13104	-.09327	-.13023	.04334	.00000
2.860	-3.264	5.54995	-.60864	-1.3637	-.11329	-.10626	-.12714	-.09702	-.12636	.04100	.00000
2.860	-.982	5.52941	-.33777	-1.3641	-.11719	-.11320	-.12334	-.10282	-.12066	.03650	.00000
2.860	1.264	5.51472	-.05644	-1.3830	-.12100	-.11596	-.11752	-.10659	-.12446	.03385	.00000
2.860	3.509	5.51981	.25344	-1.4024	-.12679	-.12178	-.11562	-.11234	-.13023	.03532	.00000
2.860	5.751	5.51675	.56843	-1.3833	-.12873	-.12373	-.11178	-.11426	-.12258	.03413	.00000
2.860	8.047	5.50466	.88024	-1.3255	-.13063	-.12951	-.10598	-.11806	-.11107	.03562	.00000
2.860	10.317	5.50280	1.09394	-1.3062	-.13062	-.12756	-.10210	-.11804	-.10529	.03741	.00000
2.860	GRADIENT	-.00467	.12707	-.00060	-.00196	-.00232	.00179	-.00220	-.00068	-.00087	.00000

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 62

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

(A06000) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 120/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
3.900	-11.830	5.46649	-1.17080	-0.07680	-0.05759	-0.05732	-0.07397	-0.08440	-0.06959	.00000	-0.10567
3.900	-3.822	5.45040	-1.11439	-0.07680	-0.06015	-0.05733	-0.07398	-0.08441	-0.06960	.00000	-0.10564
3.900	-7.428	5.44016	-1.03144	-0.07679	-0.06823	-0.06241	-0.07397	-0.08440	-0.06959	.00000	-0.10568
3.900	-5.225	5.43102	-0.89080	-0.07680	-0.07778	-0.06495	-0.07397	-0.08440	-0.06959	.00000	-0.10567
3.900	-3.033	5.41747	-0.68493	-0.07680	-0.07033	-0.06496	-0.07398	-0.08440	-0.06960	.00000	-0.10564
3.900	-0.833	5.40000	-0.44234	-0.07426	-0.07287	-0.06750	-0.07398	-0.08448	-0.06960	.00000	-0.10565
3.900	1.343	5.38585	-0.16604	-0.07679	-0.07286	-0.06748	-0.07143	-0.08447	-0.06958	.00000	-0.10573
3.900	3.518	5.38167	.24227	-0.07679	-0.07541	-0.07003	-0.07143	-0.08448	-0.06958	.00000	-0.10570
3.900	5.709	5.37796	.47498	-0.07680	-0.07796	-0.07258	-0.06891	-0.08448	-0.06959	.00000	-0.10567
3.900	7.899	5.37299	.76258	-0.07426	-0.07796	-0.07513	-0.06637	-0.09201	-0.06707	.00000	-0.10567
3.900	10.104	5.37412	1.02182	-0.07679	-0.07796	-0.07512	-0.06363	-0.09201	-0.06707	.00000	-0.10569
GRADIENT		-0.00557	.12632	-0.00011	-0.00070	-0.00070	.00047	-0.00035	.00000	.00000	-0.00001

RUN NO. 125/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
4.630	-10.964	5.33590	-1.13424	-0.05112	-0.04234	-0.03879	-0.04430	-0.06751	-0.04907	.00000	.03528
4.630	-8.520	5.32833	-1.06783	-0.05110	-0.03901	-0.03546	-0.04426	-0.06095	-0.04905	.00000	.03212
4.630	-6.675	5.32145	-0.98762	-0.05110	-0.04231	-0.03875	-0.04754	-0.06423	-0.04905	.00000	.03147
4.630	-4.540	5.31592	-0.84481	-0.05112	-0.04231	-0.03875	-0.04754	-0.06751	-0.04905	.00000	.02935
4.630	-2.393	5.30670	-0.63405	-0.05112	-0.04563	-0.04208	-0.04757	-0.06096	-0.04907	.00000	.02758
4.630	-0.265	5.29417	-0.39579	-0.05440	-0.04563	-0.04208	-0.04757	-0.06751	-0.04907	.00000	.02566
4.630	1.875	5.28562	-0.11118	-0.05112	-0.04563	-0.04208	-0.04430	-0.06423	-0.04907	.00000	.02373
4.630	4.001	5.27795	.19498	-0.05438	-0.04890	-0.04204	-0.04754	-0.06751	-0.04905	.00000	.01991
4.630	6.130	5.27549	.51065	-0.05438	-0.04890	-0.04533	-0.04426	-0.06751	-0.04905	.00000	.01670
4.630	8.267	5.27227	.79201	-0.05438	-0.04890	-0.04533	-0.04426	-0.06751	-0.04905	.00000	.01413
4.630	10.412	5.26859	1.04688	-0.05110	-0.03220	-0.04533	-0.04426	-0.06751	-0.04905	.00000	.01285
GRADIENT		-0.00454	.12187	-0.00031	-0.00062	-0.00031	.00015	-0.00015	-0.00000	.00000	-0.00118



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 63

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

(A06009) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO. 39/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.000	-6.503	.14152	-.17361	-.29617	-.22429	-.23304	-.22732	-.23365	-.27703	-.06497	.00000
2.000	-4.319	.14925	-.16257	-.29357	-.22443	-.22247	-.22745	-.22870	-.27446	-.04149	.00000
2.000	-2.166	.15441	-.15081	-.29358	-.21913	-.21982	-.23014	-.22345	-.26917	-.01689	.00000
2.000	-1.111	.15859	-.16134	-.29355	-.21907	-.21975	-.23008	-.21810	-.26648	-.00863	.00000
2.000	-.017	.15407	-.16840	-.29090	-.21908	-.21709	-.23009	-.20756	-.26383	.00288	.00000
2.000	1.037	.14968	-.17626	-.29089	-.21905	-.21439	-.23007	-.20225	-.25851	.01438	.00000
2.000	2.093	.15688	-.16086	-.28293	-.21909	-.21710	-.23010	-.20494	-.25323	.02547	.00000
2.000	4.293	.15571	-.15999	-.26697	-.21909	-.21710	-.22744	-.20757	-.23202	.04848	.00000
2.000	6.436	.14026	-.16230	-.23769	-.22173	-.21708	-.22741	-.20754	-.20281	.07108	.00000
2.000	8.632	.14219	-.15383	-.23234	-.22968	-.22508	-.22738	-.22335	-.19747	.09082	.00000
	GRADIENT	.00048	-.00010	.00290	.00048	.00071	.00000	.00304	.00465	.01045	.00000

RUN NO. 30/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.500	-6.318	.08834	-.21659	-.19723	-.15872	-.15929	-.15198	-.14924	-.19684	-.05489	.00000
2.500	-4.975	.09378	-.22131	-.19711	-.15669	-.15549	-.15168	-.14718	-.19847	-.03040	.00000
2.500	-2.285	.10640	-.21281	-.19375	-.15527	-.15406	-.15203	-.14582	-.18988	-.01378	.00000
2.500	-1.104	.10263	-.21291	-.19730	-.15538	-.15593	-.15215	-.14594	-.19343	-.00540	.00000
2.500	-.024	.12227	-.21063	-.19201	-.15704	-.15584	-.15381	-.14584	-.18292	.00162	.00000
2.500	1.062	.11124	-.21842	-.18856	-.15537	-.15241	-.15389	-.14420	-.17949	.00836	.00000
2.500	2.150	.13517	-.19228	-.18856	-.15538	-.15241	-.15390	-.14248	-.17427	.01484	.00000
2.500	4.426	.15655	-.17785	-.18509	-.15191	-.14893	-.15218	-.14078	-.16732	.03344	.00000
2.500	5.998	.14762	-.19753	-.17981	-.15184	-.14886	-.15386	-.14243	-.15681	.04427	.00000
2.500	6.675	.16344	-.18323	-.17277	-.15353	-.15055	-.15380	-.14062	-.14828	.05619	.00000
2.500	7.643	.13270	-.20693	-.17103	-.15704	-.15232	-.15381	-.14237	-.14456	.06564	.00000
	GRADIENT	.00678	.00448	.00143	.00041	.00070	-.00016	.00073	.00362	.00698	.00000

RUN NO. 35/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.860	-6.696	-1.00095	-.33400	-.15175	-.12483	-.12560	-.11943	-.10465	-.15705	-.04634	.00000
2.860	-4.440	-.99504	-.33397	-.15176	-.12100	-.11789	-.11945	-.10850	-.15706	-.02554	.00000
2.860	-2.257	-.97662	-.32081	-.15369	-.12101	-.11790	-.11946	-.10660	-.15706	-.01069	.00000
2.860	-1.149	-.97484	-.31696	-.15177	-.12293	-.12177	-.11946	-.10660	-.15514	-.00386	.00000
2.860	-.024	-.96754	-.32080	-.14986	-.12296	-.12180	-.11949	-.10664	-.14749	.00148	.00000
2.860	1.057	-.98084	-.33100	-.14601	-.12295	-.11985	-.11947	-.10471	-.14365	.00801	.00000
2.860	2.162	-.97916	-.32658	-.14602	-.12105	-.11794	-.11950	-.10474	-.13983	.01394	.00000
2.860	4.408	-.99417	-.33395	-.14024	-.11718	-.11212	-.12140	-.10090	-.12832	.02790	.00000
2.860	6.626	-1.00709	-.33994	-.13642	-.11913	-.11408	-.12143	-.10475	-.11877	.04776	.00000
2.860	8.868	-1.01169	-.34714	-.13061	-.12292	-.11789	-.12351	-.11040	-.11679	.06860	.00000
	GRADIENT	-.00017	-.00055	.00145	.00033	.00054	-.00017	.00078	.00347	.00592	.00000

TABULATED SOURCE DATA, LARC UPWT 1056/1073 1A42A/B

DATE 12 JUL 74

(A06009) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1:201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

ALPHA = .000 RUDDER = .000

RUN NO. 121/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSBB	CPOC	CPOB	CPTB	CPMSB	CPSBC	CHR (1)	CHR (2)
3.900	-6.487	-84082	-41651	-07680	-07542	-07238	-07144	-09201	-06959	.00000	-.0367
3.900	-4.269	-83466	-40927	-07933	-07541	-07258	-07144	-09201	-07211	.00000	-.10568
3.900	-2.137	-82373	-41387	-07933	-07541	-07003	-06636	-09201	-07210	.00000	-.10572
3.900	-1.079	-82411	-42600	-07933	-07542	-07004	-06637	-09201	-07211	.00000	-.10566
3.900	-.012	-82459	-42731	-07933	-07287	-07004	-06637	-09455	-07463	.00000	-.10568
3.900	1.090	-82672	-42572	-07679	-07287	-07004	-06637	-09201	-07462	.00000	-.10570
3.900	2.147	-83262	-43669	-07933	-07286	-07004	-06636	-09201	-07211	.00000	-.10568
3.900	4.348	-83373	-43213	-07679	-07287	-07004	-07144	-09455	-07210	.00000	-.10570
3.900	6.466	-84812	-45179	-07933	-07286	-07003	-07143	-09201	-06959	.00000	-.10568
3.900	8.648	-85520	-45265	-07679	-07541	-07004	-07144	-09201	-.00016	.00000	.00000
	GRADIENT	-.00038	-.00302	.00028	.00039	.00022	-.00001	-.00023			

RUN NO. 126/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSBB	CPOC	CPOB	CPTB	CPMSB	CPSBC	CHR (1)	CHR (2)
4.630	-6.356	-25651	-37796	-05112	-04893	-04537	-04430	-06751	-.05233	.00000	-.02694
4.630	-4.223	-25527	-37434	-05110	-04890	-04204	-04426	-06751	-.05231	.00000	-.01796
4.630	-2.095	-25147	-37165	-05440	-04893	-04208	-04430	-07079	-.05233	.00000	-.00770
4.630	-1.057	-25253	-37613	-05766	-04890	-04204	-04426	-06751	-.05231	.00000	-.00321
4.630	-.002	-25781	-39567	-05440	-04893	-04208	-04430	-07079	-.05233	.00000	-.00192
4.630	1.034	-25351	-38493	-05440	-04893	-04208	-04430	-07407	-.05233	.00000	.00641
4.630	2.069	-25557	-38990	-05438	-04890	-04204	-04426	-07080	-.05231	.00000	.01028
4.630	4.223	-25608	-39484	-05438	-04890	-04204	-04426	-07080	-.05231	.00000	.01992
4.630	6.345	-25813	-39597	-05438	-04890	-04204	-04426	-07080	-.05231	.00000	.02890
4.630	8.464	-25405	-38173	-05438	-04890	-04204	-04754	-07080	-.05231	.00000	.03918
	GRADIENT	-.00028	-.00288	.00022	.00000	.00000	.00000	-.00345			.00446



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 65

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

(A06010) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1295.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0130 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

RUN NO. 45/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR8B	CROC	CPOB	CPTB	CPOMS8	CPSRBC	CHR (1)	CHR (2)
2.000	-4.267	5.37775	-.69593	-21131	-20398	-20385	-24636	-19991	-20571	.23966	.00000
2.000	-2.052	5.36947	-.42888	-23031	-21435	-21227	-23665	-20824	-20875	.23083	.00000
2.000	.157	5.35724	-.16308	-23985	-21038	-21631	-22408	-21483	-21004	.22305	.00000
2.000	2.361	5.34753	.11220	-25034	-22075	-21869	-21567	-21183	-21774	.21608	.00000
2.000	4.555	5.34788	.37944	-25434	-22512	-22043	-20946	-21366	-21685	.20721	.00000
2.000	6.759	5.35556	.62821	-24932	-22812	-22346	-20720	-21142	-21723	.20092	.00000
2.000	8.976	5.35859	.84750	-24896	-22504	-22035	-20404	-21357	-20881	.19994	.00000
2.000	11.210	5.36152	1.01618	-24601	-21669	-21482	-20630	-21996	-20575	.19678	.00000
GRADIENT		-.00370	.12204	-.00481	-.00203	-.00180	.00439	-.00141	-.00142	-.00361	.00000

RUN NO. 41/ 0 RN/L = 1.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR8B	CROC	CPOB	CPTB	CPOMS8	CPSRBC	CHR (1)	CHR (2)
2.500	-8.586	5.45328	-1.13943	-17218	-14099	-13663	-17009	-12429	-16129	.22682	.00000
2.500	-6.306	5.43642	-.97486	-17209	-14085	-13911	-17000	-12412	-16118	.21591	.00000
2.500	-4.149	5.41280	-.70435	-16696	-14357	-13923	-16226	-12942	-15868	.20278	.00000
2.500	-1.967	5.39806	-.48105	-17221	-14824	-14191	-15971	-13208	-15615	.18937	.00000
2.500	.269	5.38563	-.16669	-17483	-14687	-14457	-14933	-13986	-15360	.18126	.00000
2.500	2.454	5.37841	.09429	-17741	-15404	-14715	-14409	-14240	-15875	.17651	.00000
2.500	4.632	5.37690	.35463	-17744	-15668	-15242	-13893	-14245	-15879	.17079	.00000
2.500	6.852	5.37701	.68796	-16964	-15926	-15501	-13631	-15016	-15101	.16361	.00000
2.500	9.060	5.37730	.92435	-16424	-16163	-15739	-13340	-15249	-14296	.15892	.00000
2.500	11.284	5.37004	1.10815	-16418	-15636	-15208	-13069	-14724	-14028	.15987	.00000
GRADIENT		-.00416	.12253	-.00119	-.00155	-.00144	.00283	-.00166	-.00013	-.00350	.00000

RUN NO. 43/ 0 RN/L = 1.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR8B	CROC	CPOB	CPTB	CPOMS8	CPSRBC	CHR (1)	CHR (2)
2.860	-11.536	5.38043	-1.19810	-13096	-10420	-.09640	-.12565	-.07802	-.12734	.22590	.00000
2.860	-9.459	5.36600	-1.11900	-13101	-10726	-.09650	-.12572	-.07909	-.13036	.21140	.00000
2.860	-7.225	5.35247	-.95850	-13392	-11013	-.10236	-.12564	-.08779	-.13326	.19567	.00000
2.860	-5.133	5.34007	-.78466	-13390	-11010	-.10532	-.12562	-.09071	-.13324	.18517	.00000
2.860	-2.928	5.32437	-.54843	-13391	-11309	-.10833	-.12264	-.09367	-.12732	.17274	.00000
2.860	-.803	5.31570	-.31223	-13390	-11605	-.10831	-.11965	-.10251	-.12434	.16129	.00000
2.860	1.352	5.30654	-.05013	-13094	-11904	-.11132	-.11370	-.10548	-.12435	.15435	.00000
2.860	3.498	5.30296	.22838	-13391	-12201	-.11730	-.11071	-.11434	-.13028	.14517	.00000
2.860	5.30016	5.30016	.53054	-13391	-12499	-.11731	-.10774	-.11330	-.12732	.13964	.00000
2.860	7.807	5.29650	.81561	-13095	-12797	-.12030	-.10178	-.11730	-.12140	.13595	.00000
2.860	9.987	5.29807	1.03887	-13091	-12794	-.12026	-.09875	-.11725	-.11542	.13375	.00000
GRADIENT		-.00342	.12097	.00014	-.00139	-.00140	.00195	-.00282	-.00042	-.00418	.00000

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 66

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

(A06010) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

RUN NO. 127/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
3.900	-11.921	5.46784	-1.16369	-0.07680	-0.05977	-0.05450	-0.06900	-0.08695	-0.07029	.00000	.00000
3.900	-9.621	5.45330	-1.11246	-0.07679	-0.06485	-0.05448	-0.07406	-0.08441	-0.07532	.00000	.00000
3.900	-7.426	5.44151	-1.03578	-0.07678	-0.06992	-0.05954	-0.07405	-0.08440	-0.07026	.00000	.00000
3.900	-5.227	5.42975	-0.89132	-0.07679	-0.06994	-0.05956	-0.07406	-0.08694	-0.07027	.00000	.00000
3.900	-2.974	5.41720	-0.69124	-0.07426	-0.06995	-0.06212	-0.07407	-0.08695	-0.07028	.00000	.00000
3.900	-.846	5.40086	-0.46235	-0.07426	-0.07250	-0.06213	-0.07154	-0.08948	-0.06777	.00000	.00000
3.900	1.339	5.38531	-0.19056	-0.07426	-0.07504	-0.06466	-0.06899	-0.08948	-0.06776	.00000	.00000
3.900	3.535	5.37904	.12583	-0.07427	-0.07505	-0.06468	-0.06647	-0.09456	-0.06777	.00000	.00000
3.900	5.724	5.37649	.45753	-0.07426	-0.07759	-0.06467	-0.06646	-0.09456	-0.07028	.00000	.00000
3.900	7.909	5.37209	.74619	-0.07680	-0.08014	-0.06722	-0.06393	-0.09456	-0.06777	.00000	.00000
3.900	10.110	5.37172	1.00741	-0.07426	-0.08014	-0.06722	-0.05886	-0.09456	-0.06777	.00000	.00000
GRADIENT		-0.00598	.12547	-0.00000	-0.00082	-0.00047	.00117	-0.00105	.00035	.00000	-0.00622

RUN NO. 125/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
4.630	-10.952	5.34005	-1.13482	-0.05763	-0.04226	-0.02887	-0.04755	-0.06746	-0.04588	.00000	.00000
4.630	-8.821	5.33422	-1.07183	-0.05108	-0.04226	-0.03215	-0.04755	-0.06746	-0.04588	.00000	.00000
4.630	-6.660	5.32848	-0.99786	-0.05436	-0.04555	-0.03215	-0.04755	-0.06746	-0.04588	.00000	.00000
4.630	-4.535	5.32219	-0.85976	-0.05436	-0.04884	-0.03215	-0.04755	-0.06746	-0.04588	.00000	.00000
4.630	-2.394	5.31026	-0.65640	-0.05436	-0.04884	-0.03544	-0.04755	-0.06746	-0.04588	.00000	.00000
4.630	-.245	5.29650	-0.42501	-0.05436	-0.05213	-0.03872	-0.04755	-0.07074	-0.04588	.00000	.00000
4.630	1.880	5.28658	-0.14589	-0.05436	-0.05213	-0.03872	-0.04755	-0.07074	-0.04588	.00000	.00000
4.630	3.987	5.28070	.15789	-0.05436	-0.05213	-0.03872	-0.04755	-0.07074	-0.04588	.00000	.00000
4.630	6.148	5.27809	.47327	-0.05436	-0.05213	-0.03872	-0.04755	-0.07074	-0.04588	.00000	.00000
4.630	8.253	5.27605	.75060	-0.05436	-0.05542	-0.04201	-0.04100	-0.07401	-0.04588	.00000	.00000
4.630	10.394	5.27102	1.00518	-0.05436	-0.05542	-0.03872	-0.04100	-0.07401	-0.04588	.00000	.00000
GRADIENT		-0.00501	.11938	.00000	-0.00046	-0.00077	.00000	-0.00046	.00000	.00000	-0.00493



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 67

LRC UPWT 1056/1073 1A42A/B TIP151P201

(A06011) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 46/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSR88	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.000	-6.326	.14909	-.15974	-.29420	-.21903	-.21512	-.22261	-.23740	-.27250	.07712	.00000
2.000	-4.325	.14862	-.16348	-.29155	-.21719	-.20712	-.22262	-.22667	-.27251	.11034	.00000
2.000	-2.132	.15981	-.16173	-.28892	-.21458	-.20716	-.22553	-.22428	-.26988	.13696	.00000
2.000	-.022	.14851	-.16960	-.28892	-.21458	-.21250	-.22553	-.21111	-.26459	.16403	.00000
2.000	2.091	.15334	-.16066	-.28093	-.21719	-.21246	-.22549	-.20843	-.25397	.19197	.00000
2.000	4.208	.16326	-.16028	-.25971	-.21723	-.21250	-.22286	-.21111	-.22488	.21329	.00000
2.000	6.439	.14942	-.15373	-.23852	-.21994	-.21523	-.22292	-.21117	-.20640	.23328	.00000
2.000	8.632	.14406	-.16067	-.22797	-.22797	-.22330	-.22298	-.22703	-.19854	.25524	.00000
2.000	GRADIENT	.00107	.00035	.00334	-.00012	-.00075	-.00000	.00220	.00519	.01234	.00000

RUN NO. 42/ 0 RN/L = 1.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSR88	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.500	-6.503	.24389	-.19476	-.19294	-.15132	-.13917	-.14657	-.15001	-.19236	.06268	.00000
2.500	-4.331	.26028	-.19041	-.19553	-.15129	-.13914	-.14654	-.14740	-.19494	.08762	.00000
2.500	-2.167	.25508	-.20375	-.19294	-.15132	-.13918	-.14657	-.14485	-.19496	.11049	.00000
2.500	-.027	.26325	-.20325	-.19034	-.15393	-.14703	-.14658	-.14228	-.18718	.12615	.00000
2.500	2.122	.26907	-.19998	-.18771	-.15387	-.14696	-.14651	-.14479	-.17936	.14716	.00000
2.500	4.290	.27311	-.18259	-.18258	-.14879	-.14448	-.14664	-.13976	-.16907	.17061	.00000
2.500	6.427	.26033	-.19128	-.17218	-.15139	-.14710	-.14925	-.13977	-.15093	.19508	.00000
2.500	8.624	.25538	-.17958	-.16429	-.15648	-.14960	-.14914	-.14739	-.14563	.21949	.00000
2.500	GRADIENT	.00184	.00090	.00145	.00011	-.00086	-.00001	.00071	.00313	.00941	.00000

RUN NO. 44/ 0 RN/L = 1.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSR88	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.860	-6.447	-.80956	-.29837	-.14284	-.11607	-.09637	-.11371	-.10549	-.14512	.04961	.00000
2.860	-4.249	-.81110	-.29799	-.14283	-.11606	-.09934	-.11369	-.10347	-.14807	.08087	.00000
2.860	-2.141	-.79933	-.28958	-.14579	-.11604	-.09932	-.11367	-.10840	-.15103	.10157	.00000
2.860	-.037	-.80670	-.33218	-.14580	-.11903	-.10533	-.11071	-.10842	-.15104	.11946	.00000
2.860	2.076	-.80068	-.30204	-.14284	-.11904	-.11132	-.11370	-.10549	-.14512	.13505	.00000
2.860	4.246	-.80460	-.30322	-.13985	-.11902	-.11129	-.11367	-.10545	-.14213	.15120	.00000
2.860	6.367	-.80471	-.30308	-.13390	-.11903	-.11131	-.11667	-.10547	-.13028	.17184	.00000
2.860	8.513	-.81785	-.32036	-.13592	-.11902	-.11429	-.11666	-.10841	-.12434	.19529	.00000
2.860	GRADIENT	.00055	-.00108	.00042	-.00042	-.00169	-.00000	.00014	.00084	.00821	.00000

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 68

LRC UPWT 1056/1073 1A42A/B T1P1S1P201

(A06011) (01 MAR 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XCRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YCRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZCRP = 400.0000 INCHES
 SCALE = .0100 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 128/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
3.900	-6.506	-81083	-42000	-07426	-07504	-06467	-06646	-09456	-07028	.00000	.03722
3.950	-4.268	-80612	-42147	-07680	-07504	-06467	-06393	-09456	-08036	.00000	.05906
3.900	-2.138	-80424	-42562	-07680	-07505	-06467	-06393	-09456	-08036	.00000	.06387
3.900	-1.082	-80119	-42641	-07934	-07504	-06213	-06393	-09202	-07532	.00000	.09528
3.900	.011	-80813	-42632	-07933	-07250	-06212	-06393	-09456	-07532	.00000	.10969
3.900	1.073	-81248	-43483	-07934	-07250	-06213	-06393	-09456	-07532	.00000	.12159
3.900	2.153	-81635	-44618	-07933	-07250	-06212	-06393	-09202	-07532	.00000	.13202
3.900	4.303	-81998	-44309	-07933	-07250	-06212	-06393	-09456	-07280	.00000	.15038
3.900	6.464	-82689	-46056	-07680	-07504	-06212	-06646	-09456	-07280	.00000	.16825
3.900	8.626	-85802	-46032	-07426	-07505	-06468	-06647	-08695	-06525	.00000	.18205
GRADIENT		-070202	-00302	-00034	.00040	.00023	.00000	.00006	.00089	.00000	.01024

RUN NO. 130/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
4.630	-6.360	-25731	-41145	-05765	-05215	-03876	-04431	-07400	-04916	.00000	.02560
4.630	-4.222	-25460	-40854	-05763	-05213	-03872	-04428	-07574	-04913	.00000	.04165
4.630	-2.094	-25542	-40491	-05763	-05213	-03872	-04428	-07074	-04913	.00000	.05896
4.630	-1.061	-25693	-42550	-05763	-05213	-03872	-04428	-07074	-04913	.00000	.06957
4.630	.001	-25656	-42697	-05763	-05213	-03872	-04428	-07401	-04913	.00000	.08231
4.630	1.036	-26049	-43317	-05765	-05215	-03876	-04431	-07073	-04913	.00000	.09595
4.630	2.093	-25567	-42218	-05763	-05213	-03872	-04428	-07074	-04913	.00000	.10894
4.630	4.227	-25934	-42423	-05763	-05213	-03872	-04755	-07074	-04913	.00000	.13255
4.630	6.366	-25845	-42581	-05436	-05213	-03872	-04755	-07074	-04913	.00000	.15016
4.630	8.459	-25892	-42568	-05436	-05213	-03872	-04755	-07401	-04913	.00000	.17435
GRADIENT		-00054	-00236	-00000	-00000	.00030	-00030	.00000	-00000	.00000	.01110

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (IA42A/B)

PAGE 59

LRC UPWT 1056/1073 IA42A/B T1P1S1P201FR1

(A06012) (01 MAR 74)

REFERENCE DATA

SAFF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 51/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.000	-4.230	-.00591	-.63870	-.24999	-.18339	-.18123	-.23975	-.17208	-.22829	.00247	.00000
2.000	-2.036	-.00993	-.39007	-.27368	-.19080	-.18599	-.23398	-.17408	-.24117	.00248	.00000
2.000	.196	-.01269	-.12361	-.27631	-.19606	-.19397	-.22855	-.18195	-.24645	.00248	.00000
2.000	2.387	-.01333	.14280	-.28467	-.20211	-.19739	-.22379	-.18802	-.25491	.00206	.00000
2.000	4.581	-.01573	.41327	-.28458	-.20193	-.19987	-.21561	-.19840	-.25213	.00288	.00000
2.000	6.765	-.01385	.64108	-.28450	-.19642	-.19702	-.21545	-.19558	-.24936	.00289	.00000
2.000	8.989	-.01719	.84435	-.28183	-.19642	-.19433	-.21545	-.19823	-.24936	.00247	.00000
2.000	11.204	-.01967	.97869	-.28433	-.18850	-.18637	-.21820	-.18772	-.24675	.00206	.00000
GRADIENT		-.00068	.11961	-.00364	-.00220	-.00221	.00265	-.00302	-.00279	.00002	.00000

RUN NO. 47/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.500	-9.229	-.01943	-1.14062	-.19151	-.13386	-.13080	-.17963	-.12457	-.18938	.00189	.00000
2.500	-6.798	-.01799	-.95655	-.19152	-.13737	-.13433	-.17964	-.12632	-.19113	.00189	.00000
2.500	-4.511	-.02542	-.72577	-.19326	-.13911	-.13608	-.17438	-.13151	-.18764	.00108	.00000
2.500	-2.167	-.02343	-.45883	-.19325	-.14259	-.13958	-.16737	-.13669	-.18416	-.00081	.00000
2.500	.138	-.03388	-.20191	-.19324	-.14605	-.13954	-.16033	-.14012	-.18414	.00108	.00000
2.500	2.423	-.03589	.07138	-.19149	-.14954	-.14305	-.15332	-.14530	-.18413	.00000	.00000
2.500	4.735	-.04305	.37799	-.18798	-.15127	-.14479	-.15155	-.14530	-.17889	-.00027	.00000
2.500	7.054	-.04809	.68396	-.18453	-.15310	-.14839	-.14812	-.14712	-.17546	.00189	.00000
2.500	9.385	-.04052	.93127	-.18459	-.15145	-.14673	-.14647	-.14549	-.17379	.00034	.00000
2.500	11.742	-.03811	1.09425	-.18802	-.13913	-.13785	-.14987	-.13672	-.17546	-.00027	.00000
GRADIENT		-.00207	.11860	.00053	-.00135	-.00091	.00259	-.00157	.00076	-.00008	.00000

RUN NO. 49/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.860	-12.240	-.00912	-1.22513	-.14344	-.09918	-.08823	-.13618	-.07917	-.14299	.00258	.00000
2.860	-10.041	-.01246	-1.13283	-.14155	-.10501	-.09410	-.13814	-.08306	-.14302	.00119	.00000
2.860	-7.700	-.00888	-.99924	-.14924	-.10501	-.09603	-.13621	-.08687	-.14494	.00238	.00000
2.860	-5.460	-.01908	-.79350	-.14922	-.10775	-.10180	-.13426	-.09256	-.14876	.00178	.00000
2.860	-3.220	-.02134	-.54910	-.14922	-.11266	-.10565	-.13039	-.10017	-.14875	.00149	.00000
2.860	-.948	-.01590	-.31017	-.14924	-.11656	-.10765	-.12657	-.10405	-.14877	.00178	.00000
2.860	1.295	-.02282	-.05071	-.14539	-.12039	-.10956	-.12078	-.10976	-.14302	.00119	.00000
2.860	3.505	-.02257	.21428	-.14346	-.12037	-.11148	-.11883	-.11165	-.14109	.00149	.00000
2.860	5.732	-.02318	.51308	-.13962	-.12039	-.11537	-.11692	-.11167	-.13918	.00148	.00000
2.860	8.033	-.02670	.81189	-.13577	-.12039	-.11536	-.11306	-.11357	-.13151	.00059	.00000
2.860	10.313	-.03040	1.05434	-.13766	-.11841	-.11337	-.11107	-.11161	-.13339	.00030	.00000
GRADIENT		-.00047	.11371	.00594	-.00121	-.00087	.00181	-.00179	.00128	-.00003	.00000

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 70

(A06012) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P201FR1

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 ZREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 131/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
3.950	-11.823	-.00638	-1.16709	-.08075	-.06622	-.06096	-.07803	-.08582	-.07431	.00000	.00347
3.950	-9.621	-.01409	-1.10127	-.08075	-.06877	-.06350	-.07803	-.08582	-.07430	.00000	.00347
3.950	-7.392	-.01152	-1.01220	-.08075	-.07131	-.06604	-.07549	-.08836	-.07430	.00000	.00347
3.950	-5.203	-.00812	-.86592	-.08075	-.07132	-.06859	-.07296	-.08836	-.07683	.00000	.00298
3.950	-2.998	-.00862	-.66474	-.08329	-.07132	-.06605	-.07042	-.09090	-.07683	.00000	.00248
3.950	-.859	-.01106	-.43097	-.08329	-.07387	-.07114	-.07043	-.09090	-.07683	.00000	.00298
3.950	1.364	-.01083	-.16170	-.08075	-.07641	-.07115	-.07043	-.09343	-.07935	.00000	.00198
3.950	3.532	-.01324	.12572	-.08075	-.07642	-.07368	-.06789	-.09597	-.07934	.00000	.00199
3.950	5.693	-.01581	.40876	-.08075	-.07895	-.07368	-.06282	-.09597	-.07682	.00000	.00149
3.950	7.884	-.01640	.70039	-.07568	-.07641	-.07114	-.06282	-.09343	-.07683	.00000	.00149
3.950	10.088	-.01265	.97042	-.07567	-.07132	-.06605	-.06028	-.08582	-.07431	.00000	.00149
3.950	12.332	-.01034	1.18871	-.07567	-.07132	-.06605	-.06028	-.08582	-.07431	.00000	.00149
3.950	GRADIENT	-.00562	.12107	.00047	-.00082	-.00070	-.00000	-.00035	-.00035	.00000	-.00009

RUN NO. 133/ 0 RVL = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
4.630	-10.931	-.00182	-1.12546	-.05616	-.04727	-.04044	-.04935	-.07258	-.05430	.00000	.00257
4.630	-8.807	-.00420	-1.05885	-.05616	-.05057	-.04374	-.04935	-.07258	-.05430	.00000	.00257
4.630	-6.658	-.00592	-.98278	-.05616	-.05057	-.04374	-.04935	-.07258	-.05430	.00000	.00257
4.630	-4.527	-.00579	-.83369	-.05617	-.05059	-.04706	-.04937	-.07257	-.05431	.00000	.00192
4.630	-2.399	-.00628	-.64082	-.05617	-.05388	-.04706	-.04937	-.07257	-.05431	.00000	.00257
4.630	-.235	-.00471	-.41090	-.05287	-.05386	-.04703	-.04935	-.07258	-.05430	.00000	.00193
4.630	1.908	-.00730	-.14946	-.05616	-.05386	-.05032	-.04935	-.07258	-.05430	.00000	.00193
4.630	3.995	-.00716	.14611	-.05616	-.05716	-.04703	-.04607	-.07258	-.05430	.00000	.00128
4.630	6.106	-.00838	.43830	-.05287	-.05716	-.05032	-.04607	-.07258	-.05430	.00000	.00128
4.630	8.247	-.01005	.72783	-.05616	-.05716	-.05032	-.04607	-.07258	-.05430	.00000	.00128
4.630	10.394	-.00853	1.00806	-.05616	-.05386	-.04703	-.04279	-.07258	-.05430	.00000	.00128
4.630	GRADIENT	-.00018	.11475	.00000	-.00061	-.00015	.00031	-.00000	.00000	.00000	-.00003

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

DATE 12 JUL 74

(A66013) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P201FR1

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE
 RUN NO. 52/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00
 BETA = 5.000 RUDDER = .000

REFERENCE DATA

WACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.000	-4.247	5.40647	-65034	1.21281	-19684	-18940	-23985	-18543	-19920	.06003	.00000
2.000	-2.044	5.39425	-40014	1.22353	-20224	-19484	-23724	-18816	-19662	.05918	.00000
2.000	.174	5.38729	-13779	1.23156	-20496	-20025	-22928	-18823	-20199	.05875	.00000
2.000	2.379	5.38033	14261	1.24220	-21028	-20293	-22395	-18823	-20730	.05751	.00000
2.000	4.570	5.37702	39757	1.25014	-21024	-20556	-21591	-18554	-20990	.05465	.00000
2.000	6.770	5.38391	64849	1.25012	-21021	-20553	-21591	-18286	-20987	.05631	.00000
2.000	8.995	5.39303	86454	1.24746	-21021	-20553	-21591	-18286	-20457	.05508	.00000
2.000	11.225	5.39568	102655	1.24479	-21019	-20551	-21591	-18549	-20721	.04974	.00000
GRADIENT		-00330	.11962	-00423	-00150	-00183	.00277	-00001	-00145	-00556	.00000

RUN NO. 48/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.500	-9.224	5.68893	-115755	-1.6697	-13549	-13595	-17431	-12443	-15096	.05079	.00000
2.500	-6.806	5.65425	-95879	-1.6710	-13743	-13965	-17442	-12638	-15634	.05338	.00000
2.500	-4.927	5.62466	-75732	-1.6353	-14081	-13954	-17260	-12971	-15276	.04994	.00000
2.500	-2.171	5.60655	-47110	-1.6524	-14426	-14125	-16731	-13314	-14924	.04618	.00000
2.500	.146	5.59710	-18847	-1.7049	-15132	-14301	-15679	-13487	-14575	.04699	.00000
2.500	2.460	5.58931	09828	-1.7578	-15468	-14660	-15159	-13668	-14931	.04776	.00000
2.500	4.766	5.56414	43396	-1.7743	-15668	-15173	-14794	-13999	-15091	.04812	.00000
2.500	7.072	5.57491	71018	-1.7047	-15823	-15354	-14449	-14352	-14398	.04458	.00000
2.500	9.424	5.57474	97413	-1.6693	-15818	-15349	-14268	-14520	-13594	.04677	.00000
2.500	11.779	5.57411	115835	-1.6689	-15113	-14816	-14262	-13472	-13863	.04031	.00000
GRADIENT		-00596	.12705	-00165	-00150	-00128	.00280	-00104	.00016	-00009	.00000

RUN NO. 50/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
2.860	-12.254	5.62602	-122245	-1.2223	-10119	-09412	-13815	-07927	-11044	.05552	.00000
2.860	-10.097	5.59286	-114574	-1.3000	-10500	-10183	-13813	-08496	-11809	.04693	.00000
2.860	-7.699	5.57099	-100610	-1.3577	-10693	-10570	-13813	-08878	-12576	.04485	.00000
2.860	-5.504	5.54652	-82454	-1.3579	-11080	-10766	-13429	-09263	-12578	.04364	.00000
2.860	-3.225	5.53111	-58087	-1.3382	-11458	-10952	-13232	-09826	-12189	.03953	.00000
2.860	-.946	5.50512	-32043	-1.3388	-11659	-11154	-12660	-10218	-11621	.03710	.00000
2.860	1.284	5.49565	-04867	-1.3385	-11846	-11343	-12077	-10403	-11808	.03505	.00000
2.860	3.523	5.49957	24893	-1.3373	-12236	-11541	-11889	-10981	-12388	.03223	.00000
2.860	5.787	5.48284	57934	-1.3389	-12428	-11928	-11697	-10982	-12006	.03175	.00000
2.860	8.089	5.48797	86874	-1.2809	-12616	-12117	-11307	-11358	-11042	.03445	.00000
2.860	10.332	5.48852	107765	-1.2811	-12426	-11926	-11117	-11170	-10662	.03443	.00000
GRADIENT		-00464	.12284	-00052	-00112	-00087	.00205	-00162	-00034	-00105	.00000

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(1A6013) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P2O1FR1

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 132/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
3.900	-11.930	5.56497	-1.16229	-0.07568	-0.06368	-0.06096	-0.07296	-0.08836	-0.07431	.00000	.04615
3.900	-9.617	5.48944	-1.10498	-0.08075	-0.06878	-0.06097	-0.07296	-0.08583	-0.07179	.00000	.04267
3.900	-7.423	5.48038	-1.02297	-0.08075	-0.07132	-0.06605	-0.07296	-0.08936	-0.07179	.00000	.04020
3.900	-5.230	5.46986	-0.88855	-0.07567	-0.07131	-0.06604	-0.07296	-0.08582	-0.07430	.00000	.03671
3.900	-3.028	5.45689	-0.67700	-0.07567	-0.07386	-0.06859	-0.07296	-0.08836	-0.07431	.00000	.03623
3.900	-0.856	5.44133	-0.48814	-0.08074	-0.07640	-0.06858	-0.07255	-0.09090	-0.07178	.00000	.03326
3.900	1.334	5.42716	-0.17551	-0.07821	-0.07641	-0.07114	-0.07296	-0.08836	-0.07179	.00000	.02927
3.900	3.526	5.42164	.14092	-0.07314	-0.07896	-0.07369	-0.07043	-0.09597	-0.07179	.00000	.02530
3.900	5.689	5.41949	.45895	-0.07313	-0.08150	-0.07367	-0.07042	-0.09597	-0.07179	.00000	.02234
3.900	7.931	5.41216	.75614	-0.07568	-0.07896	-0.07369	-0.06789	-0.09597	-0.07179	.00000	.01945
3.900	10.102	5.41326	1.01439	-0.07314	-0.07896	-0.07369	-0.06536	-0.09597	-0.07179	.00000	.01685
3.900	GRADIENT	-0.00549	.12476	.00047	-0.00070	-0.00082	.00035	-0.00093	.00034	.00000	-0.00168

RUN NO. 134/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CPOMSB	CPSRBC	CHR (1)	CHR (2)
4.630	-11.068	5.37926	-1.13416	-0.05287	-0.04397	-0.05044	-0.05283	-0.07258	-0.05430	.00000	.03661
4.630	-8.843	5.37360	-1.06907	-0.05617	-0.04730	-0.04548	-0.05283	-0.06929	-0.05106	.00000	.03337
4.630	-6.677	5.36865	-0.98357	-0.05616	-0.05057	-0.04374	-0.04935	-0.06929	-0.05103	.00000	.03211
4.630	-4.545	5.36044	-0.84645	-0.05617	-0.05059	-0.04377	-0.05155	-0.06829	-0.05106	.00000	.03171
4.630	-2.404	5.35118	-0.65631	-0.05616	-0.05386	-0.04374	-0.04935	-0.07258	-0.05103	.00000	.02826
4.630	-0.276	5.33683	-0.42416	-0.05617	-0.05388	-0.04706	-0.05285	-0.07257	-0.05106	.00000	.02821
4.630	1.849	5.32826	-0.14232	-0.05617	-0.05386	-0.04706	-0.04937	-0.07257	-0.05106	.00000	.02417
4.630	3.994	5.32057	.16239	-0.05289	-0.05717	-0.05035	-0.04937	-0.07257	-0.05106	.00000	.02116
4.630	6.106	5.31736	.47829	-0.05616	-0.05716	-0.05032	-0.04935	-0.07258	-0.05430	.00000	.01796
4.630	8.256	5.31473	.76604	-0.05617	-0.05717	-0.05035	-0.04610	-0.07257	-0.05431	.00000	.01579
4.630	10.400	5.30982	1.01951	-0.05617	-0.05717	-0.05035	-0.04282	-0.07257	-0.05106	.00000	.01347
4.630	GRADIENT	-0.00481	.11869	.00031	-0.00062	-0.00077	.00031	-0.00031	.00000	.00000	-0.00000



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 73

LRC UPWT 1056/1073 1A42A/B T4P6S1P201

(A06014) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1.90.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 57/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CPOH88	CPSR8C	CHR (1)	CHR (2)
2.000	-4.280	-0.01078	-0.6164	-0.26279	-0.20439	-0.19696	-0.24195	-0.19303	-0.23852	.00205	.00000
2.000	-2.072	-0.01019	-0.41683	-0.27854	-0.20934	-0.20192	-0.23633	-0.20056	-0.25150	.00206	.00000
2.000	.134	-0.01153	-0.15975	-0.28381	-0.21456	-0.20985	-0.23091	-0.20309	-0.25408	.00247	.00000
2.000	2.331	-0.01252	-0.11575	-0.28395	-0.22015	-0.21280	-0.21782	-0.20866	-0.25693	.00205	.00000
2.000	4.516	-0.01411	-0.07867	-0.28127	-0.22012	-0.21545	-0.20979	-0.21391	-0.25691	.00287	.00000
2.000	6.717	-0.01495	-0.04921	-0.28126	-0.21478	-0.21007	-0.20443	-0.21388	-0.25159	.00288	.00000
2.000	8.933	-0.01812	-0.06130	-0.27659	-0.20945	-0.20738	-0.20442	-0.20859	-0.24627	.00246	.00000
2.000	11.154	-0.02264	-0.07642	-0.28394	-0.20419	-0.20210	-0.20448	-0.20337	-0.24366	.00246	.00000
GRADIENT		-0.00241	-0.01878	-0.00193	-0.00192	-0.00218	.00376	-0.00227	-0.00192	.00007	.00000

RUN NO. 53/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CPOH88	CPSR8C	CHR (1)	CHR (2)
2.500	-9.215	-0.02516	-1.16147	-0.19098	-0.14036	-0.13554	-0.16859	-0.12761	-0.18539	.00485	.00000
2.500	-6.816	-0.02685	-0.98602	-0.19275	-0.14216	-0.13735	-0.16688	-0.13113	-0.18716	-.00269	.00000
2.500	-4.539	-0.03562	-0.75532	-0.19092	-0.14546	-0.13891	-0.16323	-0.13611	-0.18558	.00054	.00000
2.500	-2.206	-0.04210	-0.47705	-0.19101	-0.14916	-0.14265	-0.15815	-0.14327	-0.18196	.00027	.00000
2.500	.101	-0.01873	-0.23039	-0.19096	-0.15254	-0.14604	-0.15105	-0.14662	-0.18189	-.00108	.00000
2.500	2.387	-0.03780	-0.03317	-0.18739	-0.15414	-0.14940	-0.14564	-0.14993	-0.18006	.00004	.00000
2.500	4.666	-0.04099	-0.35332	-0.18576	-0.15610	-0.14962	-0.14237	-0.15361	-0.16966	.00001	.00000
2.500	6.964	-0.03618	-0.64389	-0.18220	-0.15948	-0.15301	-0.13873	-0.15349	-0.16966	-.00054	.00000
2.500	9.309	-0.03606	-0.90552	-0.18398	-0.15953	-0.15482	-0.13529	-0.15528	-0.16796	.00054	.00000
2.500	11.669	-0.04061	-1.10828	-0.18747	-0.15254	-0.14955	-0.13354	-0.14662	-0.16970	.00027	.00000
GRADIENT		-0.00027	-0.01873	-0.00060	-0.00114	-0.00123	.00236	-0.00181	-0.00068	-.00004	.00000

RUN NO. 55/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CPOH88	CPSR8C	CHR (1)	CHR (2)
2.860	-12.247	-0.04453	-1.23834	-0.14480	-0.10061	-0.09351	-0.13175	-0.08258	-0.14053	.00148	.00000
2.860	-10.040	-0.03583	-1.14403	-0.14670	-0.10633	-0.09732	-0.12979	-0.08442	-0.14243	.00059	.00000
2.860	-7.711	-0.00981	-1.01944	-0.15055	-0.10825	-0.10312	-0.12593	-0.08823	-0.14818	.00178	.00000
2.860	-5.507	-0.01052	-0.83369	-0.15247	-0.11209	-0.10504	-0.12400	-0.09586	-0.14818	.00119	.00000
2.860	-3.267	-0.01776	-0.59136	-0.14862	-0.11593	-0.10311	-0.12014	-0.10158	-0.14626	-.00039	.00000
2.860	-1.073	-0.01572	-0.33824	-0.14670	-0.11978	-0.11085	-0.11629	-0.10731	-0.14435	.00119	.00000
2.860	1.233	-0.02002	-0.08501	-0.14480	-0.11982	-0.11089	-0.11247	-0.11307	-0.14245	.00085	.00000
2.860	3.455	-0.02561	-0.18719	-0.14287	-0.11982	-0.11282	-0.11055	-0.11498	-0.14245	.00059	.00000
2.860	5.686	-0.02488	-0.47471	-0.14095	-0.12366	-0.11668	-0.10669	-0.11497	-0.13670	.00030	.00000
2.860	7.949	-0.03231	-0.77222	-0.13903	-0.12558	-0.12055	-0.10284	-0.11688	-0.13287	-.00030	.00000
2.860	10.218	-0.03118	-1.02211	-0.13708	-0.12554	-0.12051	-0.10086	-0.11875	-0.13284	-.00119	.00000
GRADIENT		-0.00124	-0.01555	-0.00085	-0.00052	-0.00130	.00146	-0.00205	.00060	.00019	.00000

(A86014) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B TAP6S1P2C1

PARAMETRIC DATA

REFERENCE DATA

SHEF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.0000 INCHES YMRP = .0000 INCHES
 BREF = 1290.0000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

BETA = .000 RUDDER = .000

RUN NO. 135/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPS888	CROC	CPOB	CPTB	CFMS8	CPS8BC	CHR (1)	CHR (2)
3.900	-11.844	.05468	-1.16793	-.08160	-.06432	-.05912	-.07133	-.05667	-.07807	.00000	.00446
3.900	-9.847	.00305	-1.09888	-.08160	-.06942	-.06167	-.07640	-.08667	-.07555	.00000	.00397
3.900	-7.440	.00115	-1.00610	-.08160	-.07197	-.06676	-.07640	-.08667	-.07556	.00000	.00397
3.900	-5.257	.00133	-.86564	-.08160	-.07196	-.06420	-.07386	-.08667	-.07807	.00000	.00347
3.900	-3.057	.00330	-.66533	-.08160	-.07451	-.06675	-.07133	-.08667	-.07807	.00000	.00347
3.900	-.878	-.00516	-.43736	-.08160	-.07451	-.06930	-.07134	-.08921	-.07807	.00000	.00298
3.900	1.313	-.00389	-.16969	-.08160	-.07705	-.06929	-.06880	-.08921	-.07807	.00000	.00248
3.900	3.469	-.00628	.09606	-.08160	-.07705	-.07184	-.06627	-.08921	-.07807	.00000	.00198
3.900	5.831	-.00610	.38155	-.08160	-.07705	-.07184	-.06120	-.08921	-.07807	.00000	.00149
3.900	7.821	-.00726	.68007	-.08160	-.07705	-.07184	-.06120	-.08921	-.07807	.00000	.00149
3.900	10.027	-.00554	.95469	-.08160	-.07705	-.07184	-.06120	-.08921	-.07807	.00000	.00149
GRADIENT		-.00108	.11722	.00000	-.00047	-.00070	.00047	-.00035	.00000	.00000	-.00016

RUN NO. 137/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPS888	CROC	CPOB	CPTB	CFMS8	CPS8BC	CHR (1)	CHR (2)
4.630	-10.972	.00272	-1.10075	-.05726	-.04811	-.03807	-.05053	-.07038	-.05591	.00000	.00120
4.630	-8.330	-.00199	-1.04126	-.05726	-.04811	-.04136	-.05053	-.06710	-.05591	.00000	.00120
4.630	-6.703	-.00257	-.95713	-.05725	-.05138	-.04132	-.04722	-.05710	-.05599	.00000	.00120
4.630	-4.566	-.00132	-.81195	-.05725	-.05140	-.04485	-.05053	-.06710	-.05591	.00000	.00120
4.630	-2.441	-.00178	-.62978	-.05725	-.05468	-.04462	-.05053	-.06710	-.05591	.00000	.00120
4.630	1.825	-.00164	-.39974	-.05726	-.05469	-.04794	-.05053	-.06710	-.05591	.00000	.00120
4.630	3.946	-.00212	-.14466	-.05726	-.05799	-.04794	-.05053	-.06710	-.05591	.00000	.00120
4.630	6.071	-.00259	.12022	-.05725	-.05797	-.04794	-.05053	-.06710	-.05591	.00000	.00120
4.630	8.210	-.00315	.41490	-.05398	-.05799	-.04794	-.04725	-.06710	-.05591	.00000	.00120
4.630	10.343	-.00478	.72446	-.05398	-.05799	-.05123	-.04397	-.06710	-.05591	.00000	.00120
GRADIENT		-.00519	.99280	-.05398	-.05799	-.05123	-.04397	-.06710	-.05591	.00000	.00120
		-.00014	.11035	.00031	-.00077	-.00046	.00000	-.00015	.00000	.00000	-.00009



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 73

LRC UPWT 1056/1073 1A42A/B TAP681FE01

1A6019) (01 MAR 74)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 56/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPONSB	CPSRBC	CHR (1)	CHR (2)
2.000	-4.286	5.38262	-1.66962	-21462	-20664	-20435	-24698	-20091	-20369	.06044	.00700
2.000	-2.034	5.36814	-1.40911	-21465	-21471	-20732	-23637	-20325	-20643	.05917	.00700
2.000	.139	5.36037	-1.15292	-24138	-21745	-21276	-22578	-20398	-20652	.05832	.00700
2.000	2.338	5.35243	.12996	-24573	-22281	-21815	-21782	-20866	-20922	.03789	.00700
2.000	4.534	5.34695	.40490	-23209	-22286	-22088	-20986	-21136	-21458	.05622	.00700
2.000	6.728	5.33649	.65821	-22209	-22352	-22088	-20722	-21136	-21193	.05787	.00700
2.000	8.933	5.33005	.85927	-24411	-22285	-21819	-20454	-21134	-20661	.05418	.00700
2.000	11.157	5.32635	1.03768	-24673	-21218	-21013	-23716	-19348	-20392	.04804	.00700
GRADIENT		-0.00378	.12211	-0.00378	-0.0184	-0.0197	.00421	-0.0123	-0.0112	-.00044	.00000

RUN NO. 54/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPONSB	CPSRBC	CHR (1)	CHR (2)
2.500	-9.246	5.65950	-1.17270	-17338	-14186	-14234	-17370	-12734	-15736	.05649	.00000
2.500	-6.825	5.62572	-1.17170	-17170	-14199	-14421	-17201	-13594	-16093	.03156	.00000
2.500	-4.563	5.62360	-1.16819	-16819	-14371	-14418	-16849	-13437	-15742	.04868	.00000
2.500	-2.232	5.58268	-1.0179	-17166	-14717	-14590	-16145	-13780	-15216	.04377	.00000
2.500	.068	5.57513	-2.2886	-17518	-15070	-14945	-15270	-14304	-15044	.04348	.00000
2.500	2.383	5.55889	.07946	-17694	-15596	-15123	-14747	-14654	-15221	.04131	.00000
2.500	4.685	5.54417	.40137	-17692	-15943	-15647	-14042	-14997	-15218	.04322	.00000
2.500	6.997	5.54204	.71556	-16993	-16118	-15990	-13692	-15344	-14346	.04808	.00000
2.500	9.293	5.54362	.96858	-16472	-16297	-16179	-13347	-15349	-13655	.04966	.00000
2.500	11.590	5.53308	1.16117	-16298	-15774	-15478	-13348	-14657	-13308	.04426	.00000
GRADIENT		-0.00791	.12713	-0.00998	-0.0174	-0.0129	.00303	-0.0173	.00045	-.00060	.00000

RUN NO. 56/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	L/D	CPSRBB	CPOC	CPOB	CPTB	CPONSB	CPSRBC	CHR (1)	CHR (2)
2.866	-12.265	5.61163	-1.22965	-13132	-10441	-09732	-13172	-08292	-12134	.05226	.00000
2.866	-10.660	5.58829	-1.15060	-13518	-11019	-10507	-13366	-08636	-12711	.05376	.00000
2.866	-7.720	5.56697	-1.05570	-13710	-11211	-11087	-13173	-09207	-13093	.04335	.00000
2.866	-5.553	5.53686	-.84044	-13707	-11206	-11081	-12976	-09582	-12706	.04169	.00000
2.866	-3.253	5.51355	-.58997	-13520	-11599	-11284	-12598	-10166	-12330	.03768	.00000
2.866	-1.003	5.49746	-.34838	-13519	-11982	-11476	-12211	-10354	-11946	.03561	.00000
2.866	1.229	5.48583	-.07058	-13518	-12172	-11860	-11438	-10733	-12327	.03384	.00000
2.866	3.454	5.47204	-.21678	-13708	-12554	-12051	-11242	-11302	-12516	.03149	.00000
2.866	5.707	5.47990	.54194	-13521	-12753	-12252	-10866	-11501	-12332	.03174	.00000
2.866	7.990	5.47678	.83595	-12940	-13132	-12632	-10472	-12066	-12983	.03267	.00000
2.866	10.273	5.47300	1.07952	-12560	-12944	-12444	-.09902	-12072	-12224	.03649	.00000
GRADIENT		-0.00609	.12069	-0.0025	-0.0137	-0.0120	.00217	-0.0169	-.00042	-.00091	.00000

DATE 12 JUL 74

PAGE 76

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(A06015) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B T4P6S1P201

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCH²S
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0155 SCALE

PARAMETRIC DATA

BETA = 5.000 RISDER = .000

RUN NO. 136/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CFOM88	CPSRBC	CHR (1)	CHR (2)
3.900	-11.063	5.45297	-1.15131	-0.7906	-0.6687	-0.6166	-0.7133	-0.0921	-0.7807	.00000	.04514
3.900	-9.656	5.44134	-1.09649	-0.7907	-0.6588	-0.6167	-0.7134	-0.0867	-0.7556	.00000	.04215
3.900	-7.467	5.43493	-1.00842	-0.7906	-0.6942	-0.6421	-0.7133	-0.0867	-0.7555	.00000	.03918
3.900	-5.263	5.42638	-0.86899	-0.7906	-0.7196	-0.6421	-0.7133	-0.0821	-0.7555	.00000	.03720
3.900	-3.070	5.41340	-0.66727	-0.7906	-0.7451	-0.6675	-0.7133	-0.0821	-0.7555	.00000	.03472
3.900	-.894	5.39590	-0.44164	-0.8160	-0.7706	-0.6930	-0.7134	-0.0821	-0.7556	.00000	.03173
3.900	1.297	5.38366	-0.17401	-0.8160	-0.7705	-0.7183	-0.7133	-0.0821	-0.7555	.00000	.02828
3.900	3.480	5.37755	.13189	-0.7906	-0.7960	-0.7183	-0.7133	-0.09174	-0.7303	.00000	.02430
3.900	5.645	5.37318	.43109	-0.7906	-0.7959	-0.7437	-0.6879	-0.09174	-0.7303	.00000	.02084
3.900	7.841	5.36702	.73457	-0.8160	-0.8214	-0.7438	-0.6625	-0.09174	-0.7301	.00000	.01835
3.900	10.057	5.36288	.98989	-0.8160	-0.8214	-0.7438	-0.6374	-0.09174	-0.7301	.00000	.01785
GRADIENT		.00548	.12203	.00000	-.00070	-.00081	.00000	-.00035	.00035	.00000	-.00159

RUN NO. 138/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CFOM88	CPSRBC	CHR (1)	CHR (2)
4.630	-10.998	5.32596	-1.11829	-0.5726	-0.5140	-0.4465	-0.5053	-0.7366	-0.5591	.00000	.03464
4.630	-8.853	5.32607	-1.05070	-0.5398	-0.4811	-0.4136	-0.5053	-0.6710	-0.5591	.00000	.03208
4.630	-6.725	5.32246	-.96004	-0.5726	-0.5140	-0.4136	-0.5053	-0.6710	-0.5591	.00000	.03015
4.630	-4.583	5.31497	-.82688	-0.5726	-0.5140	-0.4465	-0.4725	-0.7038	-0.5591	.00000	.02887
4.630	-2.448	5.30378	-.63116	-0.5726	-0.5469	-0.4465	-0.5053	-0.7038	-0.5591	.00000	.02630
4.630	-.310	5.29271	-.40192	-0.5726	-0.5469	-0.4794	-0.5053	-0.7038	-0.5591	.00000	.02438
4.630	1.832	5.28401	-.12562	-0.5726	-0.5469	-0.4794	-0.5053	-0.7038	-0.5591	.00000	.02245
4.630	3.946	5.28021	.16618	-0.6054	-0.5799	-0.5123	-0.5053	-0.7038	-0.5591	.00000	.01940
4.630	6.079	5.27312	.46772	-0.5726	-0.5799	-0.5123	-0.4725	-0.7366	-0.5591	.00000	.01283
4.630	8.212	5.26807	.74355	-0.5726	-0.5799	-0.5123	-0.4725	-0.7366	-0.5591	.00000	.01155
4.630	10.353	5.26257	1.01000	-0.5398	-0.5799	-0.5123	-0.4397	-0.7366	-0.5591	.00000	.01155
GRADIENT		-.00419	.11676	-.00031	-.00062	-.00077	-.00031	.00000	.00000	.00000	-.00168



DATE 12 JUL 74

PAGE 77

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(A08016) (01 MAR 74)

LRC UPWT 1056/1073 1A42A/B 12P431P201

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

SETA = .000 RUDDER = .000

RUN NO. 63/ 0 RVL = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CPOM88	CPSR8C	CHR (1)	CHR (2)
2.000	-4.218	-.01853	-.72336	-.27531	-.20868	-.20111	-.24366	-.19478	-.25057	.00247	.00000
2.000	-2.003	-.01841	-.46015	-.28023	-.21324	-.20567	-.23768	-.19391	-.25574	.00207	.00000
2.000	.202	-.01508	-.18573	-.28847	-.21633	-.21148	-.22999	-.19969	-.25870	.00248	.00000
2.000	2.426	-.01993	.12369	-.28596	-.22199	-.21718	-.21692	-.20799	-.25893	.00165	.00000
2.000	4.603	-.02248	.41233	-.28320	-.22448	-.21968	-.21138	-.21309	-.25880	.00247	.00000
2.000	6.799	-.01927	.68618	-.28307	-.22158	-.21945	-.20577	-.21019	-.25597	.00269	.00000
2.000	9.028	-.02441	.92495	-.28309	-.21626	-.21410	-.20312	-.20737	-.25332	.00206	.00000
2.000	11.270	-.03013	1.07519	-.28857	-.20833	-.20632	-.20609	-.20521	-.24554	.00206	.00000
2.000	GRADIENT	-.00043	.12936	-.00096	-.00183	-.00220	.00387	-.00230	-.00085	-.00002	.00000

RUN NO. 59/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CPOM88	CPSR8C	CHR (1)	CHR (2)
2.500	-9.256	-.01924	-1.28077	-.18710	-.14162	-.13847	-.16987	-.12374	-.17981	.00189	.00000
2.500	-6.795	-.03858	-1.08817	-.19238	-.14343	-.14021	-.16466	-.13075	-.18682	.00034	.00000
2.500	-4.512	-.03906	-.85376	-.19410	-.14687	-.14199	-.16286	-.13416	-.18679	.00162	.00000
2.500	-2.135	-.04370	-.54329	-.19399	-.15188	-.14525	-.15737	-.14082	-.18316	.00081	.00000
2.500	.177	-.05016	-.25532	-.19238	-.15591	-.14908	-.15238	-.14636	-.18508	-.00270	.00000
2.500	2.450	-.04164	.04571	-.19060	-.15560	-.14902	-.14706	-.14803	-.17985	.00027	.00000
2.500	4.775	-.04382	.38902	-.18713	-.15742	-.15085	-.14187	-.14983	-.17633	.00027	.00000
2.500	7.108	-.04234	.72065	-.18361	-.15912	-.15432	-.13831	-.15132	-.17284	-.00189	.00000
2.500	9.456	-.04966	1.30657	-.18361	-.16262	-.15783	-.13480	-.15325	-.17288	.00081	.00000
2.500	11.832	-.05008	1.20466	-.18888	-.15916	-.15436	-.13486	-.14983	.00059	-.00014	.00000
2.500	GRADIENT	-.00033	.13277	.00075	-.00107	-.00093	.00226	-.00167			

RUN NO. 61/ 0 RVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CPOM88	CPSR8C	CHR (1)	CHR (2)
2.860	-12.301	-.02944	-1.35429	-.14833	-.10032	-.09699	-.13333	-.07672	-.14602	.00030	.00000
2.860	-10.050	-.02986	-1.27520	-.14640	-.10797	-.09888	-.12945	-.08239	-.14601	.00089	.00000
2.860	-7.707	-.03526	-1.14241	-.15020	-.10979	-.10456	-.12552	-.08797	-.14980	.00119	.00000
2.860	-5.501	-.03923	-.94107	-.15028	-.11190	-.10477	-.12374	-.09394	-.14988	.00089	.00000
2.860	-3.208	-.04250	-.67354	-.15023	-.11563	-.10658	-.11979	-.09761	-.14983	.00030	.00000
2.860	-.943	-.04159	-.39115	-.14833	-.11951	-.11049	-.11598	-.10337	-.14793	.00089	.00000
2.860	1.298	-.04676	-.10939	-.14642	-.11954	-.11053	-.11458	-.10913	-.14795	.00119	.00000
2.860	3.553	-.05060	.21112	-.14640	-.12142	-.11241	-.11018	-.11098	-.14601	.00089	.00000
2.860	5.804	-.05254	.59232	-.14256	-.12335	-.11628	-.10634	-.11290	-.14218	.00059	.00000
2.860	8.077	-.05286	.87081	-.14256	-.12527	-.12014	-.10248	-.11671	-.13835	.00030	.00000
2.860	10.376	-.05635	1.14321	-.14066	-.12721	-.12210	-.10059	-.11674	-.13645	-.00119	.00000
2.860	GRADIENT	-.00131	.15032	.00059	-.00077	-.00078	.00136	-.00204	.00051	.00009	.00000

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 72

LRC UPWT 1056/1073 1A42A/B T2P4S1P201

(A06016) (01 MAR 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 139/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CROMSB	CPSRBC	CHR (1)	CHR (2)
3.900	-11.960	.00406	-1.27633	-.08439	-.06215	-.05892	-.07916	-.08439	-.07306	.00000	.00397
3.900	-9.742	-.00219	-1.22932	-.07932	-.06724	-.06200	-.07662	-.08186	-.07305	.00000	.00397
3.900	-7.538	-.00458	-1.13910	-.08185	-.07233	-.06454	-.07662	-.08439	-.07305	.00000	.00347
3.900	-5.324	-.00506	-.99991	-.08439	-.07488	-.06963	-.07409	-.08439	-.07557	.00000	.00347
3.900	-3.129	-.00549	-.78151	-.08185	-.07488	-.06963	-.07155	-.08947	-.07557	.00000	.00347
3.900	-.943	-.00592	-.50948	-.08185	-.07487	-.07216	-.06900	-.08946	-.07556	.00000	.00298
3.900	1.237	-.00695	-.18388	-.08185	-.07742	-.07216	-.06900	-.09200	-.07808	.00000	.00298
3.900	3.439	-.01201	.14421	-.07931	-.07742	-.07472	-.06647	-.09200	-.07809	.00000	.00248
3.900	5.631	-.01184	.47654	-.08186	-.07743	-.07472	-.06648	-.09454	-.07809	.00000	.00248
3.900	7.826	-.01150	.80477	-.08186	-.07999	-.07474	-.06397	-.09201	-.07810	.00000	.00198
3.900	10.037	-.01186	1.10449	-.07932	-.07998	-.07473	-.06143	-.09454	-.07558	.00000	.00149
3.900	GRADIENT	-.00094	.14165	.00035	-.00046	-.00070	.00070	-.00046	-.00046	.00000	-.00014

RUN NO. 141/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CROC	CPOB	CPTB	CROMSB	CPSRBC	CHR (1)	CHR (2)
4.630	-11.068	.00651	-1.22664	-.05759	-.04530	-.03850	-.04753	-.06744	-.04942	.00000	.00321
4.630	-8.921	.00220	-1.18404	-.05759	-.04530	-.04179	-.05081	-.06744	-.04942	.00000	.00321
4.630	-6.780	-.00078	-1.09126	-.05758	-.04857	-.04176	-.05079	-.06744	-.04939	.00000	.00322
4.630	-4.642	-.00123	-.94749	-.05758	-.05187	-.04506	-.05079	-.06744	-.04939	.00000	.00257
4.630	-2.503	-.00173	-.74737	-.05758	-.05517	-.04506	-.05079	-.06744	-.05266	.00000	.00322
4.630	-.365	-.00157	-.47660	-.05758	-.05517	-.04835	-.05079	-.06744	-.05266	.00000	.00257
4.630	1.767	-.00203	-.17219	-.05758	-.05517	-.04835	-.05079	-.06744	-.05266	.00000	.00193
4.630	3.902	-.00322	.16534	-.05758	-.05517	-.04835	-.05079	-.06744	-.05266	.00000	.00128
4.630	6.042	-.00185	.49424	-.05431	-.05848	-.05167	-.04753	-.06744	-.05268	.00000	.00128
4.630	8.197	-.00153	.84012	-.05759	-.05848	-.05167	-.04753	-.07072	-.05268	.00000	.00128
4.630	10.345	-.00057	1.15687	-.05758	-.05847	-.04835	-.04422	-.06744	-.05266	.00000	.00129
4.630	GRADIENT	-.00020	.13113	.00000	-.00031	-.00046	.00000	-.00000	-.00031	.00000	-.00009



(A86017) (01 MAR 74)

LRC UPWT 1056.1073 1A42A/B T2P4S1P201

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 64/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CPONS8	CPSRBC	CHR (1)	CHR (2)
2.000	-4.242	5.39726	-74715	-23530	-21131	-20644	-24364	-20533	-21373	.06135	.00000
2.000	-1.996	5.38681	-45271	-24082	-21663	-21179	-24095	-20267	-21371	.06053	.00000
2.000	.205	5.38037	-15944	-24596	-21930	-21715	-22491	-20796	-21105	.06012	.00000
2.000	2.418	5.36587	.13858	-25390	-22456	-22245	-21682	-20768	-21630	.05892	.00000
2.000	4.610	5.36292	.42510	-25657	-22723	-22245	-20879	-20768	-21896	.05686	.00000
2.000	6.815	5.37722	.69722	-25402	-23004	-22327	-20896	-20805	-21911	.05803	.00000
2.000	9.036	5.38151	.93053	-24605	-22473	-22262	-20632	-20808	-20851	.05596	.00000
2.000	11.285	5.38430	1.11809	-24339	-21676	-21728	-20633	-19488	-20322	.04937	.00000
2.000	GRADIENT	-0.00405	.13272	-0.0252	-0.00180	-0.00193	.00424	-0.00047	-0.00059	-.00048	.00000

RUN NO. 60/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CPONS8	CPSRBC	CHR (1)	CHR (2)
2.500	-9.267	5.70267	-1.27500	-17493	-14174	-14035	-17346	-12215	-16246	.05262	.00000
2.500	-6.820	5.67586	-1.09569	-17665	-14344	-14558	-17168	-12903	-16417	.05075	.00000
2.500	-4.532	5.64428	-0.86809	-17137	-14514	-14553	-16813	-13244	-15890	.04484	.00000
2.500	-2.169	5.61440	-0.54633	-17484	-14859	-14724	-16283	-13585	-15536	.04568	.00000
2.500	.132	5.60512	-0.26149	-17845	-15400	-15093	-15422	-14125	-15378	.04316	.00000
2.500	2.478	5.59530	.09778	-18187	-15738	-15257	-14709	-14459	-15890	.04214	.00000
2.500	4.788	5.57466	.45217	-18185	-15910	-15781	-14355	-14803	-15887	.04351	.00000
2.500	7.135	5.59553	.78281	-17319	-16445	-16319	-13842	-14988	-14678	.04641	.00000
2.500	9.505	5.59592	1.08802	-16439	-16614	-16489	-13483	-14807	-13624	.04943	.00000
2.500	11.986	5.59626	1.28383	-16609	-15909	-15804	-13476	-14801	-13617	.04514	.00000
2.500	GRADIENT	-0.00723	.14103	-0.0120	-0.00158	-0.00128	.00279	-0.00171	-0.00015	-.00027	.00000

RUN NO. 62/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSR88	CPOC	CPOB	CPTB	CPONS8	CPSRBC	CHR (1)	CHR (2)
2.860	-12.296	5.65632	-1.33409	-13299	-10419	-09702	-13334	-07866	-12498	.05397	.00000
2.860	-10.069	5.63229	-1.26820	-13488	-10991	-10663	-13331	-08050	-12686	.04539	.00000
2.860	-7.729	5.61110	-1.12649	-14062	-11179	-11045	-13136	-08807	-13258	.04394	.00000
2.860	-5.496	5.57924	-0.92910	-13872	-11375	-11242	-12946	-09194	-12877	.04124	.00000
2.860	-3.219	5.55359	-0.67525	-13872	-11759	-11435	-12753	-09765	-12686	.03442	.00000
2.860	-.947	5.53775	-0.39574	-13677	-12139	-11817	-12171	-10532	-12107	.03593	.00000
2.860	1.503	5.52359	-0.08199	-13681	-12337	-12016	-11985	-10530	-12304	.03411	.00000
2.860	3.583	5.51611	.26976	-14065	-12720	-12209	-11406	-11101	-12878	.03263	.00000
2.860	5.835	5.51869	.62763	-14064	-12911	-12400	-11018	-11480	-12877	.03175	.00000
2.860	8.121	5.52144	.95996	-13486	-13294	-12785	-10631	-11669	-11917	.03592	.00000
2.860	10.425	5.52457	1.21487	-12913	-13297	-12596	-10059	-11673	-10964	.03797	.00000
2.860	GRADIENT	-0.05559	.13903	-0.0026	-0.00136	-0.00111	.00187	-0.00186	-0.00034	-.00032	.00000

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (IA42A/B)

PAGE 80

LRC UPWT 1056/1073 IA42A/B T2P4S1P201

(A6017) (01 MAR 74)

REFERENCE DATA

SRF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LRF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 140/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CFOC	CPOB	CPTB	CFOMSB	CPSRBC	CHR (1)	CHR (2)
3.900	-11.967	5.49761	-1.26464	-.07932	-.06215	-.05691	-.07408	-.08439	-.07305	.00000	.04715
3.900	-9.760	5.48456	-1.22005	-.08185	-.06469	-.06199	-.07661	-.08439	-.07305	.00000	.04418
3.900	-7.599	5.47305	-1.13689	-.07932	-.06979	-.06455	-.07662	-.08693	-.07305	.00000	.04119
3.900	-5.349	5.45888	-1.00383	-.07932	-.07234	-.06709	-.07409	-.08693	-.07305	.00000	.03871
3.900	-3.138	5.44456	-.77745	-.08185	-.07487	-.06982	-.07408	-.08693	-.07304	.00000	.03575
3.900	-.949	5.42729	-.50852	-.08186	-.07743	-.07218	-.07409	-.08947	-.07306	.00000	.03275
3.900	1.255	5.41250	-.18429	-.08186	-.07743	-.07218	-.07409	-.09200	-.07305	.00000	.02928
3.900	3.450	5.40841	.17512	-.08186	-.07998	-.07473	-.06902	-.09454	-.07306	.00000	.02531
3.900	5.639	5.40800	.92223	-.07932	-.07998	-.07473	-.06902	-.09454	-.07306	.00000	.02233
3.900	7.848	5.40434	.86930	-.08185	-.08252	-.07727	-.06901	-.09454	-.07305	.00000	.01936
3.900	10.062	5.39955	1.14522	-.08185	-.08252	-.07727	-.06394	-.09454	-.07305	.00000	.01836
GRADIENT		-.00554	.14485	-.00000	-.00070	-.00035	.00035	-.00115	-.00000	.00000	-.00158

RUN NO. 142/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	L/D	CPSRBB	CFOC	CPOB	CPTB	CFOMSB	CPSRBC	CHR (1)	CHR (2)
4.630	-11.079	5.35137	-1.22189	-.05759	-.04530	-.03850	-.05081	-.06744	-.05268	.00000	.03853
4.630	-8.933	5.34100	-1.17293	-.05759	-.04530	-.04179	-.05081	-.06744	-.04942	.00000	.03532
4.630	-6.788	5.34213	-1.09477	-.05759	-.04859	-.04179	-.05081	-.06744	-.04942	.00000	.03275
4.630	-4.643	5.33918	-.94332	-.05758	-.05187	-.04506	-.05079	-.06744	-.05266	.00000	.03215
4.630	-2.507	5.32982	-.72602	-.05759	-.05189	-.04509	-.05081	-.06744	-.05268	.00000	.02830
4.630	-.366	5.31868	-.45320	-.05759	-.05518	-.04838	-.05081	-.06744	-.05268	.00000	.02444
4.630	1.781	5.30809	-.14777	-.05758	-.05517	-.05165	-.05079	-.06744	-.05266	.00000	.02187
4.630	3.917	5.30256	.22034	-.05758	-.05517	-.05165	-.05079	-.06744	-.05266	.00000	.01865
4.630	6.056	5.29681	.53781	-.05758	-.05847	-.05165	-.05079	-.06744	-.05266	.00000	.01479
4.630	8.206	5.29318	.86309	-.05758	-.05847	-.05165	-.04750	-.06744	-.05266	.00000	.01284
4.630	10.352	5.28623	1.15154	-.05759	-.05848	-.05167	-.04753	-.06744	-.05268	.00000	.01117
GRADIENT		-.00444	.13574	.00000	-.00046	-.00061	.00000	.00000	.00000	.00000	-.00117



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (IA42A/B)

PAGE 01

LRC UPWT 1056/1073 IA42A/B Y1P1

(C66001) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO.		5 / 0	RNVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00					
MACH	ALPHA	BETA	CN	CLW	CA	CAT	CAFT	CABT	
1.600	-10.265	-.00704	-.13985	-.01140	.17286	.17289	.12790	.04499	
1.600	-8.257	-.00651	-.10770	-.01015	.16756	.16788	.12543	.04245	
1.600	-6.096	-.00570	-.07889	-.00663	.16242	.16291	.12247	.04044	
1.600	-4.072	-.00740	-.05438	-.00206	.15782	.15831	.12026	.03805	
1.600	-1.979	-.00699	-.03181	.00212	.15327	.15393	.11992	.03601	
1.600	.111	-.00818	-.01072	.00775	.15629	.15695	.12022	.03673	
1.600	2.197	-.00731	.01031	.01317	.15558	.15601	.11990	.03611	
1.600	4.292	-.01047	.03470	.01759	.15489	.15532	.11852	.03680	
1.600	6.390	-.00899	.05915	.02239	.15524	.15590	.11710	.03680	
1.600	8.490	-.00976	.08630	.02695	.15758	.15807	.11555	.04252	
1.600	10.604	-.01087	.11851	.03020	.15941	.16001	.11439	.04562	
GRADIENT		-.00031	.01054	.00241	-.00027	-.00028	-.00017	-.00012	

RUN NO.		7 / 0	RNVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00					
MACH	ALPHA	BETA	CN	CLW	CA	CAT	CAFT	CABT	
2.000	-9.674	-.00882	-.14550	-.00370	.15879	.15896	.11761	.04135	
2.000	-7.654	-.00998	-.10922	-.00433	.15307	.15330	.11548	.03781	
2.000	-5.498	-.00994	-.07715	-.00348	.14854	.14905	.11264	.03642	
2.000	-3.479	-.00908	-.05256	.00032	.14462	.14496	.11133	.03363	
2.000	-1.397	-.01079	-.02963	.00521	.14377	.14428	.11135	.03293	
2.000	.705	-.01069	-.00665	.01005	.14349	.14394	.11203	.03191	
2.000	2.799	-.01273	.01802	.01432	.14213	.14241	.11152	.03089	
2.000	4.888	-.01395	.04265	.01836	.14242	.14270	.11044	.03226	
2.000	6.993	-.01628	.07070	.02176	.14305	.14345	.10914	.03431	
2.000	9.099	-.01450	.10318	.02383	.14502	.14542	.10838	.03704	
2.000	11.217	-.01478	.14387	.02189	.14782	.14816	.10839	.03978	
GRADIENT		-.00056	.01137	.00214	-.00029	-.00031	-.00008	-.00023	

(C60001) (02 MAY 74)

LRC UPWT 1056/1073 1A42A/B T1P1

REFERENCE DATA

SREF = 2890.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 1/0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.500	-9.532	-.00963	-.15157	.00331	.14593	.14619	.11434	.03184
2.500	-7.496	-.00963	-.10768	-.00146	.14187	.14206	.11283	.02923
2.500	-5.366	-.00963	-.07869	-.00140	.13733	.13778	.11041	.02736
2.500	-3.345	-.00963	-.04820	.00098	.13421	.13453	.10866	.02587
2.500	-1.260	-.01378	-.02352	.00427	.13264	.13289	.10814	.02476
2.500	.830	-.01337	-.00551	.00915	.13150	.13188	.10823	.02365
2.500	2.914	-.01521	.02783	.01108	.13028	.13060	.10733	.02327
2.500	5.000	-.01478	.05080	.01552	.13028	.13066	.10629	.02437
2.500	7.096	-.01807	.08651	.01515	.13115	.13153	.10492	.02661
2.500	9.194	-.01927	.12131	.01451	.13238	.13270	.10384	.02886
2.500	11.292	-.01917	.16316	.00949	.13416	.13442	.10444	.02998
GRADIENT		-.00008	.01195	.00172	-.00049	-.00048	-.00027	-.00021

RUN NO. 3/0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.860	-10.606	-.00589	-.16538	.00686	.13513	.13528	.10998	.02530
2.860	-8.591	-.00846	-.12418	.00022	.13164	.13172	.10724	.02448
2.860	-6.453	-.00667	-.08845	-.00171	.12701	.12709	.10467	.02242
2.860	-4.453	-.00773	-.05996	-.00208	.12359	.12381	.10220	.02161
2.860	-2.385	-.00778	-.03723	.00185	.12192	.12207	.10128	.02078
2.860	-.308	-.00844	-.01249	.00474	.12054	.12069	.10113	.01955
2.860	1.766	-.00992	.01217	.00744	.11955	.11983	.10070	.01913
2.860	3.841	-.01012	.03692	.01059	.11922	.11943	.09987	.01956
2.860	5.916	-.00951	.06339	.01177	.11932	.11947	.09868	.02079
2.860	7.990	-.01082	.09506	.01138	.12023	.12038	.09754	.02284
2.860	10.086	-.01167	.13487	.00794	.12186	.12201	.09753	.02447
GRADIENT		-.00033	.01172	.00149	-.00054	-.00053	-.00025	-.00028

DATE 12 JUL 74

CALCULATED SOURCE DATA, LARC UPWT 1056/1073 (IA42A/B)

PAGE 83

LARC UPWT 1056/1073 IA42A/B Y1P1

(C66001) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 107/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-10.535	.01669	-.11500	.00702	.11409	.11468	.09921	.01547
3.900	-8.468	.01703	-.12091	.00367	.11195	.11273	.09672	.01601
3.900	-6.396	.01716	-.08696	.00033	.10965	.11034	.09541	.01492
3.900	-4.332	.01666	-.05684	-.00068	.10728	.10787	.09294	.01493
3.900	-2.269	.01672	-.03270	.00107	.10558	.10608	.09168	.01440
3.900	-.220	.01813	-.00853	.00277	.10480	.10512	.09126	.01386
3.900	1.839	.01817	.01276	.00608	.10545	.10577	.09191	.01386
3.900	3.901	.01762	.03692	.00804	.10515	.10538	.09153	.01385
3.900	5.961	.01832	.06671	.00736	.10580	.10584	.09200	.01385
3.900	8.045	.01841	.09513	.00742	.10635	.10639	.09201	.01439
3.900	10.099	.01913	.12919	.00520	.10650	.10654	.09161	.01493
GRADIENT		.00016	.01132	.00109	-.00021	-.00026	-.00013	-.00013

RUN NO. 111/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-9.863	-.00288	-.14265	.00501	.10868	.10897	.09853	.01044
4.630	-7.803	-.00277	-.10828	.00129	.10661	.10690	.09646	.01044
4.630	-5.763	-.00267	-.07364	-.00097	.10378	.10407	.09363	.01044
4.630	-3.708	-.00260	-.04649	-.00077	.10138	.10155	.09112	.01043
4.630	-1.666	-.00121	-.02303	.00089	.09995	.10012	.08968	.01044
4.630	.376	-.00116	.00041	.00315	.09889	.09906	.08862	.01044
4.630	2.421	-.00111	.02384	.00540	.09861	.09867	.08892	.00974
4.630	4.475	-.00106	.04724	.00736	.09807	.09813	.08838	.00974
4.630	6.513	-.00039	.07421	.00680	.09804	.09821	.08778	.01043
4.630	8.572	.00030	.10302	.00629	.09818	.09823	.08779	.01044
4.630	10.623	.00039	.13201	.00464	.09857	.09862	.08819	.01043
GRADIENT		.00016	.01146	.00102	-.00039	-.00041	-.00030	-.00010

MACH	XAC/L
1.600	-.228564
2.000	-.188139
2.500	-.143940
3.000	-.127194
3.900	-.096362
4.630	-.088636

REFERENCE DATA

SRFP = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES

LREF = 1290.3000 INCHES YMRP = .0000 INCHES

BRFP = 1290.3000 INCHES YMRP = 400.0000 INCHES

SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO.		6/ 0	RV/L = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
1.600	-10.296	5.31215	-.15424	-.00427	.17383
1.600	-8.267	5.30568	-.11730	-.00509	.16991
1.600	-6.099	5.29873	-.08532	-.00341	.16697
1.600	-4.080	5.29615	-.05618	-.00239	.16442
1.600	-1.989	5.29644	-.03189	-.00153	.16325
1.600	.104	5.29894	-.01074	.00751	.16149
1.600	2.190	5.30496	.01023	.01244	.16030
1.600	4.294	5.31549	.03315	.01801	.16066
1.600	6.383	5.32380	.05780	.02289	.16135
1.600	8.483	5.33957	.08185	.02884	.16370
1.600	10.612	5.35547	.11452	.03323	.16588
GRADIENT		.00226	.01055	.00247	-.00050

RUN NO.		8/ 0	RV/L = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
2.000	-9.688	5.28523	-.15808	.00366	.16002
2.000	-7.670	5.29492	-.12115	.00136	.15582
2.000	-5.501	5.28849	-.08383	.00029	.15242
2.000	-3.496	5.28688	-.05601	.00175	.15023
2.000	-1.392	5.28603	-.02982	.00452	.14755
2.000	.698	5.28948	-.00678	.00934	.14562
2.000	2.788	5.29448	.01632	.01438	.14614
2.000	4.895	5.30565	.04292	.01855	.14659
2.000	6.986	5.31551	.06935	.02258	.14831
2.000	9.101	5.32789	.10361	.02401	.15038
2.000	11.227	5.33940	.14945	.02008	.15076
GRADIENT		.00219	.01164	.00207	-.00044

CABT	CAFT	CAT	CABT
.04864	.12545	.17409	.04864
.04502	.12509	.17011	.04502
.04336	.12404	.16740	.04336
.04237	.12265	.16502	.04237
.04235	.12156	.16391	.04235
.04164	.12057	.16221	.04164
.04174	.11928	.16101	.04174
.04307	.11842	.16149	.04307
.04578	.11640	.16218	.04578
.04849	.11588	.16436	.04849
.05024	.11602	.16626	.05024
.00004	-.00051	-.00048	.00004

CABT	CAFT	CAT	CABT
.04457	.11574	.16031	.04457
.04047	.11552	.15599	.04047
.03714	.11490	.15265	.03714
.03706	.11354	.15060	.03706
.03569	.11238	.14806	.03569
.03432	.11164	.14596	.03432
.03501	.11114	.14614	.03501
.03672	.11033	.14705	.03672
.03945	.10952	.14897	.03945
.04150	.10922	.15072	.04150
.04321	.10801	.15122	.04321
-.00007	-.00037	-.00043	-.00007

(C06502) (52 MAY 74)

...F... 056/1973 ...2A/B T1P1

PARAMETRIC DATA

BETA = 5.005 RUDDER = .000

RECEIVED JAN 19 1961

SREF =	1200.0000	SQ.FT.	XREF =	976.0000	INCHES
LFREF =	1290.3000	INCHES	YREF =	.0000	INCHES
BRREF =	1290.3000	INCHES	ZREF =	400.0000	INCHES
SCALE =	.0150	SCALE			

2/0 EN1 = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	CN	CLW	CA	CAT	CAFT	CABT
-9.513	5.26197	-.16204	.01010	.14640	.14666	.11404	.03261
-7.509	5.24637	-.11861	.00405	.14339	.14352	.11314	.03038
-5.356	5.24285	-.08010	.00218	.14039	.14028	.11215	.02815
-3.348	5.24141	-.05194	.00292	.13758	.13784	.11009	.02775
-1.257	5.23978	-.02529	.00596	.13591	.13623	.10920	.02703
.835	5.24482	.03132	.00897	.13334	.13366	.10776	.02590
2.922	5.24873	.02618	.01292	.13364	.13396	.10769	.02627
5.008	5.25802	.05278	.01571	.13375	.13401	.10681	.02740
7.098	5.26440	.08476	.01629	.13492	.13524	.10580	.02964
9.194	5.27320	.12131	.01448	.13567	.13599	.10523	.03076
11.298	5.28096	.16520	.00938	.13611	.13630	.10444	.03187
13.393	5.28260	.01248	.00158	-.00769	-.00768	-.00041	-.00527

CHAIN NO	4/0	RNA =	2.50	GRADIENT INTERVAL =	-5.00/	5.00
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ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
-10.589	5.23229	-.17147	.01101	.13558	.13566	.10995	.02571
-8.602	5.22326	-.13433	.00590	.13255	.13263	.10733	.02530
-6.462	5.21596	-.09664	.00296	.12905	.12913	.10547	.02366
-4.459	5.21518	-.06396	.00176	.12577	.12592	.10349	.02243
-2.385	5.21359	-.03947	.00344	.12382	.12397	.10153	.02244
-.308	5.21500	-.01493	.00561	.12245	.12260	.10099	.02161
1.761	5.21832	.00990	.00873	.12102	.12130	.09969	.02161
3.836	5.22257	.03667	.01061	.12156	.12178	.09935	.02243
5.917	5.22839	.06536	.01176	.12158	.12166	.09882	.02284
7.993	5.23338	.09695	.01093	.12236	.12258	.09809	.02443
10.100	5.23890	.13873	.00644	.12353	.12368	.09838	.02530
GRACENT	.00094	.01209	.00111	-.00034	-.00053	-.00049	-.00004

(C86002) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 50. FT.
 LREF = 1290.3000 INCHES
 BREF = 1290.3000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 108/ 0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-10.539	5.19004	-.16232	.01080	.11479	.11612	.10119	.01493
3.900	-8.473	5.18737	-.12537	.00635	.11229	.11371	.09824	.01547
3.900	-6.402	5.18408	-.09136	.00349	.11089	.11222	.09729	.01493
3.900	-4.337	5.18271	-.06134	.00250	.10923	.11037	.09544	.01493
3.900	-2.280	5.18339	-.03720	.00377	.10765	.10870	.09377	.01493
3.900	-.220	5.18346	-.01302	.00595	.10724	.10811	.09318	.01493
3.900	1.841	5.18623	.01405	.00653	.10710	.10770	.09331	.01439
3.900	3.898	5.18764	.03823	.00801	.10735	.10767	.09324	.01439
3.900	5.970	5.19251	.06806	.00729	.10723	.10737	.09297	.01439
3.900	8.031	5.19724	.09654	.00730	.10813	.10817	.09378	.01439
3.900	10.108	5.20140	.13078	.00507	.10897	.10901	.09408	.01493
GRADIENT		.00062	.01216	.00067	-.00021	-.00031	-.00023	-.00008

RUN NO. 112/ 0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-9.870	5.14870	-.14527	.00657	.10932	.10985	.09872	.01113
4.630	-7.805	5.14733	-.10883	.00345	.10727	.10804	.09690	.01113
4.630	-5.757	5.14609	-.07612	.00118	.10482	.10562	.09469	.01113
4.630	-3.703	5.14483	-.04896	.00081	.10183	.10260	.09146	.01113
4.630	-1.665	5.14354	-.02553	.00308	.10019	.10072	.09029	.01043
4.630	.381	5.14420	-.00218	.00418	.09945	.09998	.08955	.01043
4.630	2.417	5.14560	.02132	.00643	.09921	.09962	.08919	.01043
4.630	4.470	5.14836	.04847	.00632	.09861	.09890	.08847	.01043
4.630	6.509	5.15112	.07543	.00572	.09843	.09860	.08817	.01043
4.630	8.565	5.15255	.10436	.00463	.09870	.09875	.08832	.01043
4.630	10.611	5.15399	.13329	.00293	.09895	.09889	.08845	.01043
GRADIENT		.00045	.01183	.00070	-.00036	-.00042	-.00035	-.00007

MACH YAC/L

1.600	-.234220
2.000	-.178092
2.500	-.126484
2.860	-.091725
3.900	-.055033
4.630	-.059429



(036003) (02 MAY 74)

REF SOURCE DATA, LARG UNIT 1053/1073 (1442170)

REF EPT 667 1A41 T1P1S1P2

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO. 0/0 RVL = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.599	-10.765	-.00395	-.36289	.04158	.16864	.17062	.05682	.11380
.599	-8.623	-.00478	-.29379	.03516	.16869	.17057	.06116	.10940
.599	-6.483	-.00130	-.23170	.03332	.16759	.16961	.06327	.10634
.599	-4.360	.00198	-.17418	.03287	.16707	.16919	.06747	.10173
.599	-2.210	.00678	-.11072	.02983	.16683	.16880	.07064	.09817
.599	-.076	.01001	-.04603	.02734	.16666	.16841	.07193	.09647
.599	2.074	.01017	.02239	.02393	.16740	.16897	.07227	.09670
.599	4.232	.00635	.08965	.02051	.16679	.16818	.06940	.09878
.600	6.376	.00507	.15470	.01706	.16676	.16813	.06676	.10136
.599	8.503	.00327	.21736	.01442	.16752	.16900	.06132	.10768
.599	10.648	.00366	.29065	.00900	.16748	.16909	.05554	.11355
GRADIENT		.00056	.03078	-.00143	.00000	-.00009	.00026	-.00034

RUN NO. 0/0 RVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.799	-10.585	-.00351	-.37959	.03274	.18136	.18310	.06674	.11637
.799	-8.471	-.00306	-.30389	.04451	.18059	.18233	.07062	.11171
.799	-6.376	-.00175	-.23817	.04004	.17969	.18140	.07410	.10730
.799	-4.282	-.00021	-.17617	.03397	.17857	.18020	.07772	.10249
.800	-2.178	.00195	-.11579	.02885	.17777	.17927	.08136	.09791
.800	-.074	.00546	-.04558	.02471	.17675	.17798	.08264	.09535
.799	2.074	.00500	.03216	.02138	.17636	.17930	.08251	.09679
.799	4.161	.00374	.09720	.01379	.17698	.17776	.07931	.09845
.799	6.279	.00284	.16765	.00707	.17749	.17820	.07566	.10254
.799	8.374	.00284	.23336	.00293	.17699	.17779	.06985	.10734
.799	10.502	.00260	.31113	-.00325	.17669	.17749	.06397	.11352
GRADIENT		.00052	.03287	-.00226	-.00012	-.00023	.00020	-.00043

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1036/1073 (1A42A/B)

PAGE 08

(086003) (02 MAY 74)

LRC 8 TPT 667 1A41 TIP131P2

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.901	-10.702	-.00496	-.39901	.03712	.19902	.20044	.07724	.12321
.901	-8.541	-.00391	-.31591	.04658	.19855	.19993	.08104	.11890
.900	-6.460	-.00334	-.24618	.03967	.19716	.19842	.08457	.11386
.901	-4.335	-.00223	-.18064	.02552	.19433	.19519	.08751	.10728
.901	-2.206	.00161	-.11185	.01866	.19365	.19424	.09164	.10260
.901	-.081	.00489	-.03710	.01303	.19301	.19357	.09255	.10102
.900	2.066	.00396	.04133	.00930	.19323	.19383	.09194	.10190
.900	4.214	.00303	.11904	.00242	.19611	.19664	.08970	.10654
.900	6.326	.00152	.18839	-.00768	.19570	.19613	.08436	.11177
.900	8.431	.00112	.25857	-.01361	.19596	.19649	.08032	.11617
.900	10.585	.00277	.34231	-.02280	.19485	.19537	.07583	.12235
GRADIENT		.00061	.03322	-.00260	.00015	.00012	.00018	-.00006

RUN NO. 0/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.980	-10.823	-.00131	-.39158	.02332	.23063	.23208	.09707	.13501
.981	-8.634	-.00373	-.30105	.01383	.23150	.23277	.10754	.12923
.981	-6.503	-.00407	-.22574	.01305	.23209	.23335	.10964	.12371
.981	-4.351	-.00277	-.15966	.01252	.22942	.23073	.11337	.11712
.981	-2.217	.00131	-.09079	.00696	.22693	.22765	.11516	.11248
.981	-.080	.00529	-.01851	.00007	.22870	.22908	.11602	.11156
.981	2.086	.00384	.05325	.00028	.22883	.22925	.11751	.11175
.981	4.213	.00398	.12865	-.00567	.22970	.22970	.11429	.11541
.981	6.364	.00358	.20264	-.01256	.23167	.23124	.10336	.12187
.980	8.510	.00444	.27345	-.01519	.23161	.23168	.10367	.12201
.980	10.687	.00786	.36061	-.02241	.22957	.22957	.09486	.12461
GRADIENT		.00075	.03363	-.00201	.00010	.00010	.00020	-.00019



UNITED STATES OF AMERICA: LANTANA UNIT 1056/1073 (1A42A/B)

(086503) (02 MAY 74)

LOC 8 757 567 1A41 T1P1S1F2

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 INCHES
LREF = 1290.3000 INCHES YREF = .0000 INCHES
BREF = 1290.3000 INCHES ZREF = 400.0000 INCHES
SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/0 RN/L = 2.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
1.200	-11.031	.00039	-.43269	.02520	.28160	.28320	.14916	.13404
1.202	-8.811	-.00149	-.37941	.01428	.27992	.28119	.15323	.12794
1.203	-6.624	-.00466	-.24667	.01503	.27994	.28113	.15874	.12239
1.202	-4.412	-.00396	-.17073	.01610	.27889	.28018	.16099	.11920
1.202	-2.249	-.00031	-.10240	.01408	.27868	.27956	.16281	.11675
1.202	-.092	.00369	-.02754	.00839	.27903	.27978	.16301	.11677
1.202	2.103	.00280	.05176	.00458	.27795	.27876	.16298	.11578
1.201	4.291	.00174	.13123	-.00141	.27856	.27931	.16193	.11737
1.201	6.443	-.00055	.25215	-.00544	.27926	.28012	.16108	.11904
1.201	8.660	-.00223	.28923	-.00844	.27929	.28027	.15816	.12212
1.201	10.885	-.00173	.38791	-.01442	.27724	.27822	.13262	.12560
GRADIENT		.00066	.03484	-.00205	-.00006	-.00012	.00009	-.00021

RUN NO. 0/0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
1.600	-6.590	-.00721	-.25978	.02968	.25843	.25909	.17295	.08614
1.600	-4.393	-.00570	-.17250	.02315	.25699	.25753	.17253	.08500
1.600	-2.132	-.00753	-.09406	.01912	.25822	.25922	.16970	.08951
1.600	.044	-.00673	-.01962	.00945	.25479	.25545	.16863	.08682
1.600	2.256	-.00971	.06395	-.00075	.25673	.25750	.16874	.08876
1.600	4.489	-.01168	.14528	-.00783	.25891	.25974	.17050	.08924
1.600	6.716	-.01254	.22671	-.01342	.26079	.26156	.17110	.09045
1.600	8.988	-.01229	.33102	-.02721	.26232	.26309	.17019	.09290
1.600	11.270	-.01795	.46805	-.06194	.26013	.26084	.16710	.09374
GRADIENT		-.00064	.03579	-.00369	.00011	.00012	-.00023	.00035

RUN NO. 0/0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-10.318	-.00901	-.46613	.09421	.23227	.23313	.15825	.07487
2.000	-8.185	-.00843	-.35307	.06256	.23210	.23290	.16047	.07243
2.000	-5.882	-.00518	-.24171	.03960	.23168	.23231	.16186	.07044
2.000	-3.747	-.00786	-.15439	.02769	.23113	.23176	.16073	.07103
2.000	-1.520	-.00948	-.07405	.01825	.22889	.22940	.16002	.06938
2.000	.661	-.01001	.00208	.00572	.22605	.22605	.15506	.07099
2.000	2.847	-.01320	.07205	-.00087	.23025	.23059	.16107	.06952
2.000	5.076	-.01241	.15796	-.01065	.23146	.23197	.16201	.06996
2.000	7.315	-.01444	.25838	-.02792	.23062	.23113	.16055	.07058
2.000	9.544	-.01940	.37068	-.05408	.22966	.23017	.15925	.07092
2.000	11.790	-.01691	.50041	-.09221	.22852	.22909	.15622	.07287
GRADIENT		-.00075	.03440	-.00447	-.00027	-.00031	-.00018	-.00013

DATE 12 JUL 74

PAGE 9C

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(006003) (02 MAY 74)

LRC 0 TPT 667 1A41 TIP1S1P2

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

RUN NO.	ALPHA	MACH	0/ 0	BETA	CN	CLW	CA	CAT	CAFT	CABT
	-10.022	2.500		-.01165	-.43244	.10075	.20733	.20790	.15536	.05254
	-7.884	2.500		-.00723	-.31315	.06649	.20670	.20733	.15568	.05165
	-5.625	2.500		-.01498	-.21346	.04387	.20600	.20657	.15569	.05088
	-3.528	2.500		-.01040	-.13230	.02966	.20554	.20604	.15478	.05126
	-1.343	2.500		-.01710	-.05109	.01775	.20363	.20401	.15301	.05099
	.789	2.500		-.01194	.01261	.00696	.20086	.20111	.15005	.05106
	2.974	2.500		-.01598	.09201	-.00437	.20286	.20317	.15175	.05142
	5.155	2.500		-.01475	.17498	-.01804	.20242	.20280	.15111	.05169
	7.332	2.500		-.01622	.27189	-.04032	.20144	.20175	.15021	.05155
	9.530	2.500		-.02105	.37447	-.06722	.20008	.20046	.14813	.05253
	11.712	2.500		-.01340	.48755	-.10250	.19971	.20009	.14616	.05393

RUN NO.		0/ 0	RNVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00				
ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT	
-11.041	-.01117	-.43981	.10882	.19023	.19086	.14835	.04251	
-8.929	-.00947	-.33179	.07512	.18867	.18916	.14826	.04090	
-6.726	-.00957	-.23755	.04958	.18689	.18738	.14659	.04078	
-4.663	-.01131	-.16642	.03441	.18580	.18629	.14621	.04007	
-2.501	-.01519	-.08443	.01993	.18473	.18508	.14523	.03985	
-.370	-.01227	-.01848	.00938	.18256	.18277	.14290	.03987	
1.755	-.01443	.04679	-.00304	.18271	.18295	.14339	.03946	
3.885	-.01102	.11463	-.01434	.18236	.18257	.14312	.03945	
6.041	-.01273	.20045	-.03242	.18150	.18178	.14203	.03975	
8.198	-.01141	.29306	-.05648	.18096	.18117	.14156	.03961	
10.332	-.00977	.38215	-.08355	.18109	.18137	.14022	.04115	
GRADIENT	.00006	.03248	-.00564	-.00042	-.00045	-.00038	-.00008	

TAL. LATED SOURCE DATA, LARC OF WT 1056/1073 (1A42A/B)

1006003) (52 MAY 74)

REF. 17 617 1A41 T.F1S1P2

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

REF = 200.0000 INCHES
 LREF = 129.3000 INCHES
 BREF = 129.3000 INCHES
 SCALE = .0150 SCALE

RUN NO. 0/0 QN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-10.846	.00485	-.36542	.08939	.19958	.15845	.14639	.01206
3.900	-8.727	-.00505	-.28813	.08859	.15677	.15546	.14360	.01187
3.900	-6.617	-.00662	-.21365	.04964	.15561	.15430	.14298	.01133
3.900	-4.498	-.00775	-.14328	.03276	.15525	.15394	.14351	.01043
3.900	-2.399	-.00988	-.08154	.02068	.15491	.15351	.14360	.00991
3.900	-.287	-.00901	-.01989	.00910	.15270	.15130	.14140	.00990
3.900	1.804	-.00813	.03881	-.00405	.15189	.15040	.14070	.00970
3.900	3.921	-.00788	.10041	-.01476	.15250	.15110	.14140	.00970
3.900	6.039	-.00754	.17327	-.03214	.15294	.15154	.14184	.00970
3.900	8.163	-.00733	.24773	-.05014	.15413	.15282	.14296	.00986
3.900	10.289	-.00694	.32781	-.07130	.15645	.15505	.14444	.01061
GRADIENT		.00007	.02887	-.00569	-.00040	-.00042	-.00034	-.00008

RUN NO. 0/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-10.113	.01741	-.31805	.07158	.15359	.15178	.15201	-.00023
4.630	-8.028	.01771	-.24424	.05348	.15032	.14871	.14894	-.00023
4.630	-5.930	.01736	-.17796	.03894	.14744	.14563	.14586	-.00023
4.630	-3.860	.01627	-.11340	.02507	.14630	.14449	.14494	-.00046
4.630	-1.776	.01587	-.05644	.01479	.14510	.14317	.14406	-.00089
4.630	.297	.01474	.00049	.00393	.14181	.14000	.13996	.00003
4.630	2.369	.01553	.05369	-.00606	.14239	.14046	.14116	-.00070
4.630	4.451	.01767	.11077	-.01637	.14237	.14067	.14067	.00000
4.630	6.534	.01791	.17467	-.03062	.14207	.14026	.14092	-.00066
4.630	8.623	.01816	.24073	-.04628	.14374	.14193	.14259	-.00066
4.630	10.702	.01846	.31417	-.06605	.14617	.14448	.14467	-.00019
GRADIENT		.00012	.02685	-.00499	-.00051	-.00050	-.00055	.00005

MACH	YAC/L
.999	.046344
.999	.060815
.901	.073820
.980	.059714
1.200	.058737
1.600	.030081
2.000	.129994
2.500	.153216
2.860	.173756
3.900	.197132
4.630	.185738

(086004) (02 MAY 74)

REFERENCE DATA

SRF = 690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LRF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
1.600	-6.507	5.27559	-.26764	.03088	.23755	.25781	.18071	.07710
1.600	-4.398	5.26569	-.16971	.01721	.25745	.25788	.18021	.07767
1.600	-2.166	5.26206	-.08991	.01241	.25912	.25949	.17857	.08552
1.600	.022	5.25859	-.02050	.00718	.25855	.25870	.17848	.08222
1.600	2.250	5.26638	.06255	-.00120	.26091	.26111	.17821	.08290
1.600	4.477	5.28428	.14385	-.00905	.26238	.26281	.17614	.08667
1.600	6.718	5.30052	.23203	-.01764	.26357	.26417	.17377	.09040
1.600	8.974	5.31417	.33596	-.03347	.26353	.26419	.16987	.09432
1.600	11.257	5.33105	.47753	-.07043	.26107	.26190	.16285	.09906
GRADIENT		.00188	.03517	-.00298	.00055	.00052	-.00040	.00092

RUN NO. 0/ 0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-10.315	5.32091	-.47825	.10300	.23591	.23631	.15946	.07684
2.000	-8.178	5.30495	-.35927	.06735	.23522	.23573	.16351	.07322
2.000	-5.884	5.28884	-.24753	.04339	.23367	.23412	.16676	.06736
2.000	-3.738	5.27920	-.15508	.02870	.23290	.23312	.16846	.06466
2.000	-1.516	5.27713	-.07607	.01992	.23199	.23210	.16836	.06373
2.000	.657	5.27524	.00218	.00610	.23085	.23107	.16385	.06223
2.000	2.850	5.28482	.07606	-.00265	.23265	.23264	.16824	.06640
2.000	5.075	5.29749	.16214	-.01339	.23313	.23335	.16483	.06853
2.000	7.321	5.31263	.26493	-.03128	.23317	.23362	.16106	.07257
2.000	9.547	5.32672	.37831	-.05994	.23114	.23171	.15576	.07595
2.000	11.791	5.33188	.50965	-.09885	.23064	.23132	.15400	.07732
GRADIENT		.00065	.03518	-.00492	-.00009	-.00011	-.00051	.00040

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.500	-9.996	5.26203	-.43301	.10520	.21105	.21162	.15720	.05441
2.500	-7.881	5.25763	-.32340	.07397	.21016	.21065	.15791	.05275
2.500	-5.642	5.24509	-.22226	.04987	.20848	.20886	.16047	.04839
2.500	-3.595	5.23879	-.14656	.03583	.20779	.20798	.16131	.04667
2.500	-1.356	5.23215	-.05746	.02057	.20613	.20632	.15936	.04695
2.500	.789	5.24280	.01272	.00759	.20432	.20463	.15490	.04373
2.500	2.959	5.24414	.08518	-.00315	.20623	.20642	.15573	.04669
2.500	5.145	5.24871	.17245	-.01927	.20406	.20431	.15488	.04343
2.500	7.347	5.25983	.27600	-.04327	.20290	.20328	.15115	.04213
2.500	9.531	5.26585	.38389	-.07294	.20159	.20190	.14460	.04331
2.500	11.724	5.27016	.49569	-.10661	.20142	.20186	.14112	.04374
GRADIENT		.00121	.03511	-.00596	-.00030	-.00029	-.00024	.00024

026004

02 MAY 74

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

REFERENCE DATA

REF = 2650.0000 SQ.FT. XREF = 976.0000 INCHES
 LREF = .290.3000 INCHES YREF = .0000 INCHES
 BREF = 1290.3000 INCHES ZREF = 400.0000 INCHES
 SCALE = .0150 SCALE

RUN NO.	0/0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00
MACH	ALPHA	BETA	CN
2.860	-11.001	5.25369	-.44421
2.860	-8.935	5.24503	-.34327
2.860	-6.736	5.23972	-.25306
2.860	-4.661	5.23661	-.17181
2.860	-2.504	5.23281	-.09282
2.860	-.370	5.22666	-.02012
2.860	1.741	5.23339	-.04199
2.860	3.897	5.23702	-.11693
2.860	6.054	5.24272	-.20788
2.860	8.204	5.24674	-.29801
2.860	10.334	5.24930	-.38795
GRADIENT		.00006	.03335

CLM	CA	CAT	CAFT	CABT
.11325	.19439	.19502	.15394	.04107
.08125	.19287	.19536	.15256	.04080
.05809	.19046	.19081	.15140	.03941
.04012	.18859	.18880	.15082	.03798
.02526	.18671	.18685	.15001	.03684
.01158	.18452	.18473	.14718	.03755
-.00124	.18581	.18595	.14710	.03885
-.01528	.18501	.18514	.14572	.03942
-.03622	.18339	.18360	.14417	.03943
-.05932	.18283	.18311	.14270	.04040
-.08632	.18296	.18317	.14181	.04136
-.00643	-.00038	-.00039	-.00061	.00023

RUN NO.	0/0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00
MACH	ALPHA	BETA	CN
3.900	-10.858	5.19595	-.37268
3.900	-8.735	5.19250	-.29551
3.900	-6.621	5.19219	-.22118
3.900	-4.507	5.19184	-.15118
3.900	-2.392	5.19238	-.08451
3.900	-.291	5.19071	-.02381
3.900	1.805	5.19290	.03412
3.900	3.921	5.19478	.10087
3.900	6.049	5.19658	.17614
3.900	8.159	5.19687	.24732
3.900	10.284	5.20047	.32733
GRADIENT		.00030	.02956

CLM	CA	CAT	CAFT	CABT
.09419	.16382	.16250	.15118	.01131
.07324	.16145	.16033	.14864	.01169
.05389	.15961	.15830	.14753	.01077
.03765	.15831	.15691	.14668	.01024
.02367	.15734	.15594	.14591	.01003
.01156	.15649	.15518	.14482	.01036
-.00040	.15641	.15501	.14464	.01037
-.01489	.15604	.15473	.14437	.01036
-.03322	.15605	.15474	.14437	.01037
-.05046	.15705	.15565	.14563	.01002
-.07058	.15872	.15732	.14675	.01057
-.00613	-.00026	-.00025	-.00028	.00003

(086004) (02 MAY 74)

LRC UPWT 1056/1073 1A42A/B T1P1S1P2

REFERENCE DATA

SEEF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LRFP = 1290.3000 INCHES YMRP = .0000 INCHES
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CFT	CABT
4.630	-10.119	5.15284	-.32949	.07710	.15790	.15620	.15620	.00000
4.630	-8.020	5.15303	-.25217	.05765	.15436	.15266	.15244	.00022
4.630	-5.941	5.15214	-.18230	.04112	.15132	.14962	.14940	.00022
4.630	-3.857	5.15033	-.11806	.02741	.14891	.14710	.14709	.00000
4.630	-1.778	5.14846	-.06168	.01741	.14654	.14484	.14419	.00066
4.630	.299	5.14869	-.00175	.00480	.14448	.14267	.14316	-.00049
4.630	2.372	5.15018	.04716	-.00287	.14454	.14273	.14322	-.00049
4.630	4.452	5.15250	.11486	-.01854	.14405	.14224	.14273	-.00049
4.630	6.528	5.15285	.17489	-.03242	.14397	.14216	.14242	-.00026
4.630	8.618	5.15562	.24079	-.04738	.14568	.14387	.14413	-.00026
4.630	10.700	5.15645	.31032	-.06438	.14820	.14650	.14630	.00021
GRADIENT		.00529	.02767	-.00540	-.00056	-.00057	-.00047	-.00010

MACH	XAC/L
1.600	.084836
2.000	.139743
2.500	.169751
2.860	.192749
3.900	.207396
4.630	.195207



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 95

LRC 0 TPT 667 1A41 T1P101

(090005) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.998	-11.028	-.01317	-.63255	.37481	.16882	.16716	.04830	.11706
.999	-8.860	-.01968	-.32517	.31327	.16533	.16577	.05359	.11218
.999	-6.621	-.02073	-.41913	.25181	.16356	.16378	.05770	.10607
.999	-4.372	-.02548	-.30902	.18975	.16321	.16342	.06393	.09950
.999	-2.322	-.01533	-.22172	.14211	.16206	.16231	.06852	.09380
.999	-.188	-.00207	-.12961	.09323	.15809	.15850	.07074	.08776
.999	1.975	.00659	-.04017	.04592	.15035	.15103	.06937	.08166
.999	4.035	.01934	.04783	-.00120	.14042	.14090	.06410	.07680
.999	6.215	.01374	.14416	-.05481	.12723	.12750	.05546	.07204
.999	8.463	.00671	.24462	-.11079	.11154	.11171	.04297	.06874
.999	10.527	.00237	.34542	-.16818	.09641	.09659	.03040	.06619
GRADIENT		.00528	.04241	-.02264	-.00271	-.00267	.00006	-.00273

RUN NO. 0/0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.800	-10.700	-.00876	-.58829	.34820	.19428	.19479	.07178	.12301
.800	-8.579	-.00866	-.48196	.28860	.18853	.18908	.07322	.11586
.799	-6.524	-.01091	-.39820	.24326	.17906	.17955	.07282	.10673
.800	-4.306	-.00965	-.29637	.18546	.17359	.17401	.07342	.10060
.799	-2.277	-.00702	-.19499	.12823	.17056	.17050	.07552	.09497
.800	-.105	.00116	-.10191	.07691	.16447	.16496	.07686	.08810
.800	1.970	.01008	-.00649	.02407	.15801	.15854	.07549	.08305
.800	4.078	.01515	.09172	-.03081	.14923	.14971	.07012	.07958
.799	6.171	.01142	.19667	-.09052	.14158	.14192	.06405	.07767
.799	8.321	.00828	.28955	-.14110	.14187	.14218	.06412	.07806
.799	10.413	.00362	.37327	-.18439	.14589	.14624	.06610	.08014
GRADIENT		.00318	.04590	-.02553	-.00289	-.00288	-.00032	-.00257

LRC 8 TPT 667 1A41 TIP101

(086005) (02 MAY 74)

REFERENCE DATA

SREF = 2895.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.899	-10.882	-.00724	-.62964	.38074	.21402	.21411	.09041	.12370
.901	-8.741	-.00791	-.50603	.30873	.20885	.20917	.09203	.11714
.903	-6.543	-.00995	-.39286	.24041	.20764	.20107	.09006	.11101
.905	-4.397	-.01058	-.28205	.17664	.19402	.19444	.08957	.10487
.907	-2.246	-.00734	-.17382	.11489	.19074	.19120	.09212	.09958
.909	-.127	.00156	-.06095	.05064	.18600	.18651	.09376	.09276
.911	1.961	.01343	.04399	-.00953	.18093	.18150	.09136	.09014
.913	4.211	.01767	.14453	-.06316	.17871	.17938	.09118	.08820
.915	6.214	.01499	.23557	-.11312	.17840	.17901	.09229	.08672
.917	8.365	.00966	.33676	-.17006	.18012	.18028	.09011	.09017
.919	10.536	-.00023	.41358	-.20726	.18615	.18646	.09136	.09510
GRADIENT		.00360	.04998	-.02818	-.00188	-.00186	.00011	-.00197

RUN NO. 0/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.979	-11.037	.00375	-.70161	.44555	.27849	.27901	.12770	.15131
.979	-8.875	-.00635	-.57759	.37374	.27682	.27660	.12899	.14761
.981	-6.691	-.00917	-.44507	.29346	.27148	.27145	.13261	.13884
.983	-4.516	-.00987	-.31075	.20962	.26515	.26551	.13336	.13215
.985	-2.374	-.00477	-.18753	.13589	.26264	.26311	.13757	.12555
.987	-.200	.00488	-.07041	.06824	.25903	.25962	.13820	.12142
.989	1.999	.01619	.05539	-.00652	.25666	.25738	.13688	.12050
.991	4.187	.01911	.18288	-.00238	.25750	.25820	.13632	.12188
.993	6.292	.01436	.29842	-.15103	.25708	.25769	.13321	.12448
.995	8.474	.00162	.40523	-.21033	.25903	.26004	.13081	.12923
.997	10.598	-.00722	.49836	-.25821	.25994	.26150	.13024	.13126
GRADIENT		.00362	.05648	-.03335	-.00098	-.00093	.00024	-.00117

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 97

LRC 8 TPT 667 1A41 TIP101

(065005) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RM/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
1.201	-11.149	-.00198	-.63266	.40694	.33419	.33487	.19167	.14300
1.202	-9.051	-.00363	-.53932	.34318	.32822	.32883	.18992	.13891
1.203	-6.712	-.00735	-.42472	.28139	.32275	.32320	.19021	.13299
1.203	-4.621	-.00713	-.30829	.21268	.32075	.32096	.19234	.12862
1.204	-2.444	-.00460	-.17594	.13175	.31760	.31764	.19441	.12323
1.202	-.226	.00480	-.05297	.05846	.31535	.31574	.19734	.11840
1.201	1.959	.01677	.06445	-.01014	.31291	.31340	.19737	.11603
1.201	4.231	.02016	.18187	-.07615	.31088	.31133	.19518	.11615
1.201	6.304	.01692	.28395	-.13269	.30592	.30638	.19062	.11576
1.202	8.454	.01236	.39311	-.19116	.30100	.30135	.18636	.11499
1.200	10.635	.00661	.49572	-.24242	.29639	.29686	.18397	.11289
GRADIENT		.00343	.05921	-.03254	-.00110	-.00106	.00039	-.00145

RUN NO. 0/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
1.700	-1.496	-.01212	-.10504	.07889	.30245	.30267	.21188	.09080
1.700	-.399	-.01444	-.05851	.05492	.30027	.30049	.21064	.08985
1.700	1.811	-.01007	.04104	.00208	.29635	.29685	.20747	.08937
1.700	4.022	-.01351	.13708	-.04801	.29209	.29259	.20283	.08976
1.700	6.238	-.01702	.23694	-.09910	.28873	.28905	.19935	.08950
1.700	8.467	-.01828	.33255	-.14538	.28718	.28741	.19910	.08831
1.700	10.689	-.02095	.41908	-.18193	.28669	.28701	.19990	.08711
GRADIENT		.00004	.04405	-.02313	-.00186	-.00180	-.00164	-.00017

RUN NO. 0/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-6.353	-.02207	-.30400	.17252	.29115	.29151	.20864	.08287
2.000	-4.216	-.02046	-.21467	.13008	.28859	.28904	.20574	.08331
2.000	-1.971	-.02570	-.12366	.08476	.28368	.28395	.20231	.08164
2.000	.183	-.02597	-.03751	.04263	.27866	.27893	.19933	.07960
2.000	2.394	-.02660	.04846	.00561	.27345	.27372	.19607	.07765
2.000	4.580	-.02847	.13285	-.04017	.26777	.26813	.19192	.07621
2.000	6.782	-.02878	.21908	-.08003	.26538	.26583	.19062	.07522
2.000	9.000	-.03255	.29981	-.11364	.26421	.26467	.19012	.07454
2.000	11.206	-.04213	.37375	-.14117	.26373	.26400	.19103	.07297
GRADIENT		-.00077	.03949	-.01934	-.00236	-.00237	-.00154	-.00083

(080005) (02 MAY 74)

LRC 8 TPT 667 1A41 TIP101

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 407.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 R/V/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLW	CA	CAT	CAFT	CABT
2.500	-9.912	.00367	-.2417	.20792	.27844	.27804	.22571	.05313
2.500	-8.317	-.00261	-.35472	.17810	.27484	.27535	.22017	.05518
2.500	-6.063	-.01062	-.26695	.14088	.26628	.26679	.21236	.05443
2.500	-3.956	-.01891	-.18927	.10826	.26010	.26040	.20696	.05345
2.500	-1.767	-.02908	-.11354	.07538	.25277	.25297	.20021	.05276
2.500	.397	-.03222	-.04169	.04454	.24879	.24889	.19650	.05240
2.500	2.568	-.03263	.03227	.01240	.24445	.24455	.19279	.05177
2.500	4.744	-.04225	.10600	-.01910	.23916	.23916	.18820	.05097
2.500	6.910	-.04025	.17778	-.04888	.23635	.23636	.18539	.05077
2.500	9.084	-.04281	.24953	-.07614	.23430	.23431	.18437	.04993
2.500	11.276	-.04811	.32309	-.10196	.23181	.23182	.18327	.04854
GRADIENT		-.00231	.03388	-.01462	-.00231	-.00234	-.00207	-.00027

RUN NO. 0/ 0 R/V/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLW	CA	CAT	CAFT	CABT
2.860	-11.479	-.00119	-.42827	.20116	.26958	.26994	.22687	.04307
2.860	-9.419	.00241	-.35125	.16915	.26056	.26081	.21706	.04375
2.860	-7.175	-.00825	-.27573	.13876	.25037	.25096	.20713	.04383
2.860	-5.096	-.01070	-.20505	.10954	.24188	.24236	.19867	.04368
2.860	-2.913	-.01202	-.14244	.08522	.23436	.23461	.19100	.04361
2.860	-.803	-.01573	-.07796	.05867	.22792	.22817	.18507	.04311
2.860	1.345	-.02311	-.01148	.03113	.22189	.22204	.17986	.04218
2.860	3.467	-.02122	.04898	.00762	.21683	.21698	.17535	.04163
2.860	5.616	-.02783	.11713	-.02137	.21213	.21217	.17127	.04089
2.860	7.772	-.03028	.18485	-.04827	.20957	.20961	.16925	.04035
2.860	9.916	-.02892	.25062	-.07392	.20721	.20725	.16747	.03977
GRADIENT		-.00164	.03010	-.01223	-.00275	-.00277	-.00245	-.00032

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 99

LRC 8 TPT 667 1A41 T1P101

(060003) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INC.FS YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-11.240	-.00401	-.34687	.14350	.24085	.24039	.21704	.02256
3.900	-9.105	-.00698	-.28558	.12217	.23087	.23041	.20785	.02256
3.900	-6.992	-.00436	-.23571	.10758	.22152	.22121	.19725	.02396
3.900	-4.860	-.00615	-.17859	.08690	.21067	.21051	.18655	.02395
3.900	-2.729	-.00794	-.12189	.06593	.20089	.20043	.17680	.02364
3.900	-.658	-.00653	-.06814	.04741	.19206	.19175	.16887	.02288
3.900	1.475	-.00722	-.01998	.03210	.18623	.18592	.16412	.02180
3.900	3.585	-.00572	.03372	.01282	.18062	.18016	.15805	.02212
3.900	5.710	-.00360	.09027	-.00801	.17681	.17621	.15495	.02126
3.900	7.820	-.00344	.14239	-.02675	.17479	.17433	.15276	.02158
3.900	9.914	-.00147	.19456	-.04517	.17240	.17194	.15112	.02082
GRADIENT		.00010	.02496	-.00863	-.00354	-.00356	-.00330	-.00026

RUN NO. 0/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-10.392	-.00167	-.30449	.12240	.22975	.22954	.21334	.01619
4.630	-8.326	-.00766	-.25649	.10652	.22429	.22389	.20769	.01619
4.630	-6.271	-.00567	-.21152	.09420	.21282	.21242	.19622	.01619
4.630	-4.124	-.00313	-.15716	.07335	.20184	.20163	.18572	.01591
4.630	-2.080	-.00362	-.10694	.05565	.19055	.19015	.17465	.01550
4.630	.016	-.00349	-.03284	.03723	.18088	.18048	.16457	.01591
4.630	2.084	-.00337	-.00258	.02077	.17333	.17293	.15702	.01591
4.630	4.182	-.00207	.04400	.00743	.16684	.16544	.15033	.01591
4.630	6.253	-.00135	.09030	-.00829	.16233	.16193	.14602	.01591
4.630	8.324	-.00329	.13838	-.02549	.15929	.15889	.14367	.01521
4.630	10.410	-.00110	.18279	-.03925	.15495	.15455	.13933	.01521
GRADIENT		.00011	.02439	-.00802	-.00420	-.00421	-.00423	.00002

MACH	XAC/L
.598	.534007
.800	.556335
.899	.563917
.979	.590492
1.201	.589393
1.700	.525107
2.000	.489711
2.500	.431453
2.860	.406314
3.900	.345640
4.630	.329007

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 100

LRC UPWT 1056/1073 1A42A/B T1P101

(066006) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3700 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .500

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
1.700	-1.526	5.75534	-10500	.07557	.30702	.30725	.21124	.09601
1.700	-1.411	5.75508	-10560	.05094	.30560	.30583	.21006	.09377
1.700	1.788	5.75241	.03661	.00286	.30287	.30328	.20785	.09543
1.700	4.016	5.74768	.13824	-.05078	.29725	.29766	.20388	.09378
1.700	6.226	5.74689	.23191	-.09757	.29180	.29212	.20081	.09131
1.700	8.454	5.75797	.32863	-.14510	.28189	.28203	.19705	.08498
1.700	10.699	5.76612	.42587	-.19020	.27734	.27757	.19505	.08252
GRADIENT		-.00118	.04376	-.02273	-.00173	-.00169	-.00130	-.00038

RUN NO. 0/ 0 RN/L = 2.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-6.381	5.75955	-30120	.16303	.28732	.28777	.20943	.07834
2.000	-4.231	5.72985	-20665	.11781	.28647	.28674	.20712	.07962
2.000	-2.039	5.71895	-12203	.07889	.28684	.28720	.20412	.08308
2.000	.166	5.71157	-.03549	.03738	.28312	.28358	.20096	.08262
2.000	2.363	5.70537	.04930	-.00404	.27696	.27733	.19724	.08009
2.000	4.577	5.69869	.13938	-.04773	.26913	.26949	.19202	.07748
2.000	6.786	5.70125	.22314	-.08565	.26353	.26380	.18870	.07510
2.000	9.004	5.71128	.30957	-.12320	.25876	.25894	.18644	.07249
2.000	11.231	5.71944	.39664	-.15912	.25541	.25568	.18458	.07110
GRADIENT		-.00345	.03921	-.01879	-.00202	-.00202	-.00168	-.00033

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.500	-9.923	5.68661	-.42552	.20318	.27957	.28018	.22700	.05318
2.500	-8.341	5.66919	-.36026	.17780	.27564	.27625	.22223	.05401
2.500	-6.086	5.63189	-.26775	.13836	.26827	.26857	.21478	.05389
2.500	-3.972	5.62305	-.19048	.10428	.26400	.26430	.21012	.05418
2.500	-1.783	5.61927	-.11224	.07063	.25892	.25923	.20401	.05522
2.500	.385	5.59803	-.03669	.03770	.25260	.25271	.19780	.05491
2.500	2.559	5.59946	.03782	.00434	.24504	.24504	.19214	.05289
2.500	4.748	5.58880	.12127	-.03310	.23775	.23785	.18694	.05091
2.500	6.933	5.58797	.19734	-.06513	.23344	.23354	.18153	.04991
2.500	9.119	5.58097	.27604	-.09715	.22931	.22932	.18030	.04901
2.500	11.296	5.58963	.34815	-.12438	.22598	.22609	.17740	.04889
GRADIENT		-.00405	.03551	-.01566	-.00306	-.00308	-.00267	-.00041

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 101

LRC UPWT 1056/.73 1A42A/B T1P101

(060006) (02 MAY 74)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.060	-11.496	5.59118	-.43499	.20236	.27297	.27333	.23150	.04184
2.060	-9.417	5.56762	-.36383	.17418	.26370	.26406	.22227	.04179
2.060	-7.194	5.53477	-.27942	.13851	.25435	.25482	.21269	.04213
2.060	-5.102	5.52541	-.20719	.10743	.24663	.24711	.20481	.04230
2.060	-2.967	5.51370	-.13849	.07866	.23925	.23962	.19752	.04210
2.060	-.804	5.49719	-.06782	.04903	.23173	.23199	.18904	.04294
2.060	1.337	5.49751	-.00091	.02127	.22451	.22477	.18193	.04284
2.060	3.473	5.49563	.05712	-.00386	.21745	.21748	.17767	.03982
2.060	5.643	5.49064	.13614	-.03775	.21116	.21119	.17276	.03843
2.060	7.788	5.49419	.20796	-.06777	.20796	.20788	.17038	.03751
2.060	9.948	5.49309	.27574	-.09381	.20441	.20445	.16710	.03755
2.060	GRADIENT	-.00252	.03047	-.01283	-.00338	-.00343	-.00311	-.00032

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-11.257	5.42625	-.34839	.14247	.24501	.24470	.22182	.02288
3.900	-9.111	5.41949	-.29023	.12296	.23572	.23526	.21184	.02342
3.900	-7.001	5.41207	-.23783	.10678	.22577	.22531	.20189	.02342
3.900	-4.868	5.40521	-.17839	.08514	.21481	.21450	.19130	.02320
3.900	-2.737	5.39516	-.12233	.06174	.20345	.20499	.18157	.02342
3.900	-.653	5.38760	-.06906	.04583	.19753	.19707	.17419	.02289
3.900	1.475	5.38139	-.01273	.02572	.19114	.19068	.16748	.02320
3.900	3.578	5.37309	.04354	.00453	.18500	.18434	.16188	.02266
3.900	5.711	5.36927	.09965	-.01610	.18077	.18046	.15747	.02299
3.900	7.811	5.36680	.15723	-.03794	.17763	.17717	.15473	.02245
3.900	9.926	5.36504	.21194	-.05792	.17402	.17371	.15148	.02222
3.900	GRADIENT	-.00369	.02615	-.00946	-.00349	-.00351	-.00345	-.00066

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 102

(0000006) (02 MAY 74)

LRC UPWT 1056/1073 1A42A/B T1P101

REFERENCE DATA

SHEP = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAI	CAFT	CABT
4.630	-10.410	5.33731	-.30719	.12123	.23137	.23097	.21477	.01619
4.630	-8.334	5.33113	-.25694	.10741	.22766	.22726	.21106	.01619
4.630	-6.253	5.32867	-.21047	.09293	.21690	.21650	.20039	.01591
4.630	-4.160	5.32362	-.15309	.07047	.20550	.20491	.18872	.01619
4.630	-2.072	5.31732	-.09965	.05120	.19409	.19369	.17819	.01550
4.630	.014	5.30845	-.05004	.03459	.18410	.18370	.16709	.01661
4.630	2.103	5.30166	.00344	.01997	.17676	.17636	.16046	.01590
4.630	4.193	5.29592	.05319	-.00076	.17004	.16983	.15351	.01632
4.630	6.262	5.29209	.09922	-.01464	.16487	.16466	.14834	.01632
4.630	8.350	5.28890	.15060	-.03450	.16011	.15971	.14449	.01521
4.630	10.443	5.28628	.19845	-.05032	.15457	.15398	.13876	.01521
GRADIENT		-.00340	.02469	-.00851	-.00423	-.00419	-.00422	.00003

MACH	XAC/L
1.700	.519363
2.000	.479291
2.500	.440884
2.860	.421140
3.900	.361793
4.630	.344594



REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 1290.3000 INCHES

BREF = 1290.3000 INCHES

SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000

RUDDER = .000

RUN NO.		0/ 0	RN/L = 3.10	GRADIENT INTERVAL = -5.00/ 5.00				
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.599	-12.002	-.01414	-.82844	.34672	.26531	.26590	.07684	.18906
.600	-9.504	-.02236	-.67244	.28336	.26685	.26734	.08501	.18433
.600	-7.305	-.01393	-.53128	.22772	.26619	.26694	.08701	.17993
.599	-4.972	-.01208	-.39628	.17540	.26357	.26443	.09519	.17124
.599	-2.787	-.00145	-.27695	.13125	.26186	.26281	.09892	.16389
.599	-.496	.00636	-.15871	.08704	.25946	.26038	.10195	.15862
.599	1.842	.02034	-.03183	.03861	.25420	.25549	.10027	.15522
.600	4.094	.02264	.09320	-.00716	.24668	.24827	.09510	.15317
.598	6.340	.01973	.22018	-.05095	.23509	.23697	.08465	.15232
.600	8.613	.01733	.34620	-.09920	.22423	.22613	.07312	.15301
.600	10.883	.01255	.48222	-.15603	.21202	.21393	.06135	.15257
	GRADIENT	.00401	.05378	-.02011	-.00182	-.00174	.00022	-.00197

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 104

0080007 (02 MAY 74)

LRC 8 TPT 667 1A41 T1P1S1P201

PARAMETRIC DATA

BETA = .000 RUDDER = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO.		0/ 0	RVL = 1.99	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
.899	-11.633	-.00839	-.83609	.34907	.32745
.901	-9.351	-.01006	-.68272	.27382	.32542
.899	-7.147	-.00793	-.50167	.20489	.31882
.899	-4.847	-.00530	-.34991	.14253	.31347
.900	-2.650	.00051	-.20581	.08333	.30869
.900	-.369	.00633	-.06571	.02567	.30387
.895	1.846	.01644	.07314	-.03762	.29487
.899	4.083	.02293	.20066	-.08976	.29391
.899	6.298	.01681	.31565	-.12075	.29596
.899	8.550	.01186	.44006	-.16702	.29825
.899	10.746	.01242	.55559	-.20670	.29948
GRADIENT		.00324	.06173	-.02619	-.00237

RUN NO.		0/ 0	RVL = 2.05	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
.980	-12.000	-.00020	-.89662	.36455	.41122
.980	-9.612	.00007	-.69927	.28350	.40609
.981	-7.309	-.00326	-.52641	.21340	.40286
.980	-4.966	-.00552	-.36677	.15250	.39731
.980	-2.781	-.00151	-.23255	.10305	.39416
.980	-.473	.00893	-.09674	.05714	.39390
.979	1.825	.02031	.04842	-.00219	.39323
.980	4.032	.02471	.19469	-.07604	.39952
.980	6.340	.01817	.33934	-.13200	.39534
.980	8.557	.01306	.47084	-.17775	.39309
.980	10.810	.00809	.59162	-.22810	.38856
GRADIENT		.00365	.06211	-.02487	.00015

CAT	CAFT	CABT
.32776	.12245	.20531
.32578	.12746	.19832
.31948	.12883	.19064
.31419	.13245	.18174
.30949	.13592	.17357
.30387	.13729	.16659
.29595	.13681	.15914
.29515	.13520	.15995
.29731	.13344	.16387
.29927	.12742	.17185
.30033	.12127	.17907
-.00231	.00029	-.00259

CAT	CAFT	CABT
.41149	.16339	.24810
.40636	.17053	.23583
.40340	.17593	.22747
.39813	.17883	.21930
.39520	.18182	.21338
.39516	.18025	.21450
.39434	.17890	.21544
.40044	.17969	.22075
.39628	.17294	.22334
.39446	.16676	.22770
.39028	.15876	.23152
.00017	-.00006	.00022

DATE 12 JUL 74

TABULATED SOURCE LARC UPWT 1056/1073 (1A42A/B)

PAGE 105

LRC 8 TPT 667 1A-1 TIP151P201

006007) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0.50 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO.		0/ 0		RNL = 2.10		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
1.200	-12.356	.00659	-.93438	.36926	.45772	.45772	.21760
1.201	-9.982	.00221	-.72464	.27958	.45404	.45404	.21418
1.201	-7.995	-.00151	-.54503	.21082	.45005	.44998	.20819
1.201	-5.183	-.00588	-.38497	.13203	.44637	.44645	.20036
1.200	-2.934	-.00407	-.22782	.09210	.44181	.44256	.19485
1.200	-.522	.00567	-.06746	.03100	.44086	.44205	.19171
1.200	1.809	.00538	.07664	-.02280	.43994	.44093	.19219
1.200	4.096	.02211	.21007	-.07884	.43970	.44077	.19324
1.201	6.402	.01925	.35121	-.13261	.43243	.43347	.19169
1.201	8.632	.01090	.47919	-.18776	.42592	.42198	.18951
1.200	10.945	-.00401	.59447	-.21729	.41594	.41684	.18934
GRADIENT		.00399	.06226	-.02420	-.00031	-.00028	-.00019

RUN NO.		0/ 0		RNL = 1.51		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
2.000	-4.278	-.01736	-.30058	.11388	.37605	.37578	.12018
2.000	-2.052	-.01500	-.17425	.07091	.37641	.37629	.12222
2.000	.155	-.01744	-.05942	.03496	.37324	.37328	.12305
2.000	2.347	-.01732	.00534	-.00389	.36758	.36747	.12156
2.000	4.543	-.01988	.17334	-.04901	.36198	.36187	.11997
2.000	5.746	-.02007	.29418	-.09439	.35912	.35916	.11693
2.000	8.961	-.02581	.42111	-.13584	.35920	.35924	.11611
2.000	11.204	-.02643	.53927	-.16425	.35843	.35847	.11599
GRADIENT		-.00533	.05342	-.01817	-.00168	-.00166	-.00055

RUN NO.		0/ 0		RNL = 2.50		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
2.500	-9.265	-.00638	-.58360	.21883	.35109	.35132	.08423
2.500	-6.809	-.01804	-.43125	.16199	.34234	.34237	.08528
2.500	-4.534	-.02050	-.29646	.11221	.33532	.33545	.08521
2.500	-2.184	-.02665	-.17491	.07485	.33074	.33067	.08484
2.500	.099	-.03193	-.07072	.04559	.32682	.32675	.08431
2.500	2.395	-.03688	.03169	.01691	.32026	.32019	.08338
2.500	4.697	-.03267	.14194	-.01939	.31525	.31528	.08172
2.500	7.029	-.04566	.26695	-.06158	.31303	.31286	.08071
2.500	9.337	-.05420	.39521	-.11098	.31102	.31085	.08025
2.500	11.719	-.03878	.52471	-.14767	.30548	.30548	.07936
GRADIENT		-.00150	.04753	-.01394	-.00221	-.00222	-.00037

DATE 12 JUL 74

PAGE 106

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(060007) (02 MAY 74)

LRC 0 TPT 667 1A41 T1P1S1P201

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
2.860	-12.279	-.01055	-.69193	.26336	.34043
2.860	-10.082	-.01647	-.56013	.20983	.32862
2.860	-7.728	-.01596	-.43093	.16230	.31770
2.860	-5.504	-.02132	-.31338	.12074	.30832
2.860	-3.210	-.02364	-.19987	.08296	.30183
2.860	-.971	-.02815	-.10547	.05446	.29729
2.860	1.260	-.03133	-.01868	.03327	.29119
2.860	3.483	-.02758	.06824	.00653	.28430
2.860	5.713	-.02949	.16988	-.02611	.27947
2.860	7.974	-.03784	.28301	-.06874	.27605
2.860	10.285	-.03739	.40753	-.11351	.27168
	GRADIENT	-.00068	.03994	-.01123	-.00261
					-.00259
					-.00241
					-.00018

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.812	-.00330	-.54705	.19394	.29711
3.900	-9.611	-.00550	-.45556	.16604	.28579
3.900	-7.414	-.00450	-.36659	.13977	.27321
3.900	-5.202	-.00507	-.27312	.10855	.26004
3.900	-3.013	-.00611	-.18914	.08310	.25031
3.900	-.828	-.00448	-.10798	.05953	.24329
3.900	1.351	-.00958	-.03282	.04132	.23708
3.900	3.517	-.01197	.04199	.02000	.23246
3.900	5.690	-.01179	.12245	-.00665	.22794
3.900	7.872	-.01294	.21035	-.03601	.22365
3.900	10.081	-.01062	.30742	-.07064	.21944
	GRADIENT	-.00104	.03531	-.00953	-.00275
					-.00274
					-.00265
					-.00009

CAT .27530
 CABT .06483
 .26295
 .06567
 .25173
 .06579
 .24244
 .06588
 .23621
 .06533
 .23145
 .06566
 .22608
 .06494
 .22009
 .06421
 .21646
 .06301
 .21402
 .06186
 .21061
 .06078
 -.00018

CAT .26045
 CABT .03650
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CAT .29695
 CABT .26045
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 .23230
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 .21913
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 -.00265

CA .29711
 CABT .26045
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 -.00265

BETA .00330
 CABT .03650
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 .03723
 .00450
 .03737
 .00507
 .03725
 .00611
 .03724
 .00448
 .03670
 .00958
 .03638
 .01197
 .03671
 .01179
 .03568
 .01294
 .03562
 .01062
 .03458
 .00104
 -.00009

ALPHA -11.812
 CABT .03650
 -9.611
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 -7.414
 .03737
 -5.202
 .03725
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 .03724
 -.828
 .03670
 1.351
 .03638
 3.517
 .03671
 5.690
 .03568
 7.872
 .03562
 10.081
 .03458
 GRADIENT

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 107

LRC 8 TPT 667 14.1 11P1S1P201

(06007) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-10.957	-.00548	-.48927	.17373	.28491	.28471	.26150	.02321
4.630	-8.805	-.00604	-.40264	.14571	.27476	.27437	.25127	.02310
4.630	-6.660	-.00401	-.32570	.12445	.26046	.26026	.23663	.02362
4.630	-4.532	-.00266	-.24355	.09865	.24861	.24822	.22450	.02372
4.630	-2.368	-.00431	-.16820	.07447	.23889	.23868	.21444	.02424
4.630	-.255	-.00478	-.09208	.05472	.22861	.22841	.20415	.02426
4.630	1.870	-.00526	-.02185	.03843	.22184	.22145	.19715	.02430
4.630	4.001	-.00510	.05158	.01587	.21571	.21531	.19118	.02413
4.630	6.117	-.00568	.12473	-.00705	.20994	.20955	.18542	.02413
4.630	8.262	-.00597	.20753	-.03476	.20422	.20383	.18039	.02343
4.630	10.397	-.00710	.29804	-.06710	.19883	.19844	.17500	.02343
GRADIENT		-.00027	.03445	-.00945	-.00389	-.00390	-.00394	.00004

MACH	XAC/L
.599	.373980
.799	.396540
.899	.424264
.980	.400456
1.200	.388599
2.000	.340196
2.500	.296431
2.860	.281083
3.900	.270002
4.630	.274447

(068008) (02 MAY 74)

LRC 8 TPT 667 1A41 T1P1S1P201

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO.		0 / 0	RVL = 3.17	GRADIENT INTERVAL = -5.00 / 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
.599	-11.970	5.29994	-.80148	.19274	.26940
.599	-9.716	5.33982	-.65595	.13077	.27130
.600	-7.390	5.37018	-.51290	.07277	.27138
.598	-5.170	5.39537	-.38367	.02211	.27092
.599	-2.858	5.41593	-.25871	-.02389	.26919
.599	-.638	5.42859	-.14188	-.06369	.26697
.599	1.628	5.44611	-.02559	-.10444	.26245
.600	3.920	5.43593	.09825	-.14531	.25524
.600	6.262	5.41030	.22848	-.18595	.24524
.598	8.520	5.37524	.35418	-.22797	.23221
.600	10.791	5.33684	.49378	-.27839	.21780
GRADIENT		.00342	.05253	-.01783	-.00206
					-.00199
					-.00133
					-.00066

RUN NO.		0 / 0	RVL = 1.89	GRADIENT INTERVAL = -5.00 / 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
.799	-11.564	5.20823	-.77324	.16091	.29449
.801	-9.300	5.25342	-.62069	.09882	.29218
.801	-7.035	5.28341	-.47903	.04358	.28929
.801	-4.874	5.30589	-.34811	-.00704	.28794
.800	-2.635	5.32133	-.22732	-.05164	.28451
.800	-.501	5.33637	-.11002	-.09446	.28209
.799	1.745	5.34063	.00787	-.13592	.27386
.800	4.034	5.33141	.14172	-.18081	.26859
.800	6.130	5.31327	.26537	-.22529	.26508
.799	8.339	5.28265	.39568	-.27489	.26163
.800	10.518	5.25655	.52123	-.32518	.26201
GRADIENT		.00315	.05474	-.01945	-.00223
					-.00218
					-.00106
					-.00112



DATE 12 JUL 74

TABULATED SOURCE LARC UPWT 1056/1073 (1A42A/B)

PAGE 109

LRC 8 TPT 667 1 1 T1P151P201

(086008) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.900	-11.806	5.29382	-.81420	.13756	.32659	.32654	.12254	.20400
.902	-9.505	5.33937	-.64080	.08349	.32377	.32357	.12778	.19579
.901	-7.254	5.36785	-.47927	.01549	.32141	.32122	.13282	.18840
.901	-5.013	5.38571	-.33123	-.04479	.32130	.32109	.13790	.18319
.900	-2.747	5.39631	-.19368	-.09656	.31929	.31910	.14028	.17883
.901	-.514	5.40877	-.06242	-.14510	.31593	.31574	.14057	.17517
.901	1.757	5.41327	.07080	-.19718	.31204	.31194	.13732	.17462
.900	3.954	5.40630	.19278	-.24268	.30892	.30863	.13280	.17583
.901	6.212	5.39118	.32033	-.28186	.30510	.30522	.12653	.17869
.900	8.457	5.36920	.44847	-.33544	.30498	.30518	.12452	.18066
.901	10.672	5.33451	.56940	-.37665	.30273	.30272	.12287	.17985
GRADIENT		.05155	.05778	-.02192	-.00162	-.00157	-.00115	-.00243

RUN NO. 0/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.979	-12.251	5.39700	-.89083	.14611	.40529	.40617	.16694	.23922
.980	-9.805	5.41766	-.69324	.06567	.40678	.40711	.17521	.23190
.980	-7.473	5.43287	-.52333	-.00090	.40699	.40702	.18087	.22615
.979	-5.219	5.44385	-.37655	-.05630	.40723	.40706	.18677	.22029
.980	-2.874	5.44700	-.23276	-.10786	.40620	.40601	.19022	.21579
.979	-.626	5.45684	-.09562	-.16048	.40595	.40583	.18873	.21710
.979	1.677	5.45318	.05661	-.22036	.40596	.40589	.18605	.21984
.980	3.919	5.44855	.19071	-.27675	.40467	.40464	.18142	.22322
.980	6.220	5.42515	.33637	-.33459	.40082	.40100	.17271	.22829
.980	8.460	5.39014	.46819	-.38505	.39712	.39719	.16534	.23185
.980	10.702	5.35732	.59561	-.42990	.39232	.39261	.15980	.23281
GRADIENT		.05004	.06250	-.02498	-.00020	-.00018	-.00128	.00110

LRC 0 TPT 667 1A41 T1P1S1P201

(060008) (02 MAY 74)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 450.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .050

RUN NO. 0/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
1.201	-10.820	5.50401	-.78698	.06557	.45953	.45970	.25548	.20422
1.201	-10.161	5.50405	-.73630	.04499	.45892	.45908	.25609	.20299
1.201	-7.799	5.49673	-.54735	-.02840	.45674	.45676	.25980	.19696
1.201	-5.442	5.49963	-.38312	-.08840	.45340	.45328	.26323	.19505
1.201	-3.052	5.50505	-.22150	-.14792	.44933	.44917	.26586	.18331
1.201	-.696	5.51398	-.06887	-.25225	.44638	.44625	.26594	.18032
1.201	1.621	5.52158	.07386	-.25601	.44661	.44655	.26163	.18492
1.201	3.987	5.51788	.21072	-.30839	.44009	.44013	.25320	.18692
1.201	6.277	5.49864	.34934	-.35784	.43268	.43270	.24497	.18773
1.201	8.605	5.45908	.48718	-.40698	.42415	.42422	.23712	.18709
1.201	10.896	5.44889	.61533	-.44500	.41740	.41754	.23134	.18620
GRADIENT		.00196	.06142	-.02284	-.00117	-.00115	-.00180	.00056

RUN NO. 0/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-4.282	5.40422	-.30751	.11811	.37732	.37705	.26152	.11553
2.000	-2.045	5.39263	-.17683	.07169	.37545	.37518	.25835	.11683
2.000	.151	5.38153	-.05941	.03296	.37131	.37119	.25553	.11566
2.000	2.346	5.37618	-.05772	-.00683	.36660	.36649	.25085	.11564
2.000	4.550	5.36998	.17540	-.04910	.36229	.36218	.24736	.11422
2.000	6.744	5.37784	.29308	-.09249	.35883	.35872	.24437	.11434
2.000	8.969	5.38279	.42082	-.13480	.35565	.35554	.24346	.11258
2.000	11.206	5.38757	.54425	-.16609	.35163	.35167	.23988	.11179
GRADIENT		-.00385	.05443	-.01672	-.00176	-.00174	-.00162	-.00012

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.500	-9.268	5.71018	-.59545	.22919	.35626	.35598	.27373	.13225
2.500	-6.817	5.66614	-.43333	.16354	.34693	.34686	.26392	.10823
2.500	-4.541	5.63800	-.30866	.12256	.33833	.33835	.25625	.10810
2.500	-2.181	5.59748	-.17571	.07572	.33109	.33092	.24948	.08144
2.500	.115	5.58961	-.06271	.03936	.32602	.32575	.24568	.07367
2.500	2.409	5.57695	.04683	.00611	.31927	.31900	.23924	.07376
2.500	4.720	5.56828	.16457	-.03974	.31459	.31452	.23491	.07961
2.500	7.035	5.57012	.28721	-.07952	.31012	.31011	.23215	.07795
2.500	9.366	5.57495	.41324	-.12500	.30568	.30561	.22921	.07640
2.500	11.745	5.56797	.55042	-.16703	.30049	.30042	.22433	.07549
GRADIENT		-.00711	.05059	-.01706	-.00257	-.00255	-.00229	-.00026



(000000) (02 MAY 74)

LRC 0 TPT 667 1A-1 T1P1S1P201

PARAMETRIC DATA

REFERENCE DATA

BETA = 5.000 RUDDER = .000

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
2.860	-12.271	5.64632	-.68886	.26129	.34517
2.860	-10.077	5.61671	-.57111	.21914	.33451
2.860	-7.706	5.58937	-.43348	.16757	.32235
2.860	-5.438	5.57193	-.32102	.12345	.31334
2.860	-3.264	5.54995	-.21108	.08655	.30568
2.860	-.982	5.52941	-.10624	.05548	.29760
2.860	1.264	5.51472	-.00998	.02759	.29062
2.860	3.509	5.51981	.09122	-.00734	.28531
2.860	5.751	5.51675	.19922	-.04918	.28039
2.860	8.047	5.50466	.32261	-.09189	.27642
2.860	10.317	5.50280	.43372	-.13041	.27204
GRADIENT		-.00467	.04446	-.01372	-.00305

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004
3.900	-5.225	5.43102	-.28568	.11605	.26699
3.900	-3.033	5.41747	-.19665	.08754	.25652
3.900	-.833	5.40000	-.11410	.06359	.24782
3.900	1.343	5.38585	-.03427	.04200	.24099
3.900	3.518	5.38167	.04847	.01458	.23549
3.900	5.709	5.37796	.13981	-.01800	.23132
3.900	7.899	5.37299	.22977	-.04858	.22779
3.900	10.104	5.37412	.32874	-.08399	.22391
GRADIENT		-.00557	.03734	-.01102	-.00320

RUN NO.		0/ 0	RVL = 2.50	GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA
3.900	-11.830	5.46649	-.55586	.19879	.30394
3.900	-9.622	5.45040	-.46161	.16885	.29144
3.900	-7.428	5.44016	-.37612	.14453	.28004

LRC 0 TPT 667 1A41 T1P1S1P201

D06000 (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/0 RN/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-10.964	5.33590	-.49923	.17634	.29097	.29077	.26705	.02372
4.630	-8.820	5.32833	-.41256	.13241	.28145	.28125	.25815	.02310
4.630	-6.675	5.32145	-.33678	.13176	.26964	.26943	.24513	.02430
4.630	-4.540	5.31592	-.25492	.10551	.25732	.25711	.23272	.02440
4.630	-2.393	5.30670	-.17014	.07837	.24506	.24486	.22022	.02464
4.630	-.265	5.29417	-.09390	.05630	.23407	.23387	.20882	.02505
4.630	1.875	5.28562	-.01762	.03470	.22486	.22466	.20062	.02403
4.630	4.001	5.27795	.05863	.00954	.21831	.21791	.19288	.02504
4.630	6.130	5.27549	.13898	-.01766	.21254	.21233	.18758	.02475
4.630	8.267	5.27227	.22097	-.04429	.20862	.20841	.18366	.02475
4.630	10.412	5.26859	.31107	-.07422	.20415	.20375	.17923	.02453
GRADIENT		-.00454	.03652	-.01104	-.00460	-.00462	-.00465	.00003

MACH	XAC/L
.599	.339425
.799	.355384
.900	.379438
.979	.399649
1.201	.371803
2.000	.344010
2.500	.337242
2.862	.308553
3.900	.294971
4.630	.302211



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/0)

PAGE 113

LRC 0 TPT 667 1 1 TIP1S1P201

(066009) (02 MAY 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. WMRP = 976.0000 INCHES
LREF = 1290.3000 INCHES YMRP = .0000 INCHES
BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RLODR = .000

RUN NO. 0/0 RVL = 3.19 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
.596	-10.743	.41353	-.16766	.05886	.27287	.27376	.08351	.19025
.599	-8.711	.34151	-.14504	.05069	.27120	.27182	.08644	.18537
.594	-6.479	.26084	-.11368	.03987	.26834	.26886	.08351	.18037
.596	-4.382	.17545	-.07730	.02682	.26660	.26725	.079645	.17080
.595	-2.153	.08842	-.03886	.01310	.26442	.26490	.07384	.16506
.595	.084	.00667	-.00217	.00133	.26115	.26110	.06182	.15929
.595	2.124	-.07852	.03684	-.01042	.26188	.26301	.10808	.15493
.598	4.375	-.16599	.07576	-.02386	.26535	.26614	.11158	.15456
.595	6.540	-.24815	.10977	-.03610	.26747	.26791	.11140	.15652
.596	8.718	-.33348	.14460	-.04792	.26936	.26948	.10934	.15994
.595	10.870	-.41282	.17294	-.05738	.27170	.27170	.10831	.16339
GRADIENT		-.03899	.01752	-.00574	-.00024	-.00019	.00176	-.00196

RUN NO. 0/0 RVL = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
.794	-10.731	.44489	-.18960	.06413	.29377	.29413	.10002	.19412
.794	-8.567	.36240	-.15978	.05353	.29118	.29154	.10369	.18785
.795	-6.396	.27878	-.12808	.04266	.28696	.28729	.10608	.18120
.794	-4.308	.19222	-.09164	.03017	.28081	.28108	.10870	.17238
.794	-2.144	.10037	-.04832	.01518	.27629	.27661	.11182	.16479
.794	-.522	.01013	-.00487	.00211	.27149	.27239	.11655	.15584
.794	2.116	-.08346	.04097	-.01126	.27389	.27469	.12257	.15213
.795	4.240	-.17575	.08547	-.02543	.27794	.27811	.12532	.15279
.794	6.365	-.26493	.12562	-.03894	.28250	.28240	.12771	.15470
.794	8.531	-.35150	.15866	-.04967	.28726	.28714	.12897	.15818
.793	10.643	-.43628	.19133	-.06113	.29073	.29054	.12748	.16306
GRADIENT		-.04306	.02576	-.00644	-.00038	-.00037	.00206	-.00243

LRC 8 TPT 667 1A41 TIP1S1P201

006009) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO.		O/ O		RN/L = 2.01		GRADIENT INTERVAL = -3.00/ 5.00	
MACH	BETA	CY	CYN	CBL	CA	CAT	CABT
.893	-10.776	.48724	-.21819	.07179	.33152	.33196	.12239
.894	-8.607	.39594	-.18446	.06002	.32651	.32692	.12481
.894	-6.470	.30681	-.14867	.04775	.31885	.31917	.12712
.894	-4.347	.21476	-.10858	.03411	.31064	.31077	.12944
.894	-2.167	.11424	-.05860	.01801	.30333	.30343	.13044
.894	.025	.00809	-.00317	.00213	.30007	.30099	.13732
.893	2.153	-.09444	.04963	-.01301	.30389	.30444	.14178
.893	4.349	-.20234	.10415	-.02962	.30758	.30745	.14420
.893	6.545	-.29770	.14774	-.04406	.31528	.31504	.14915
.893	8.634	-.39151	.18765	-.05762	.32328	.32297	.15115
.894	10.859	-.48463	.22157	-.06883	.33050	.33014	.15181
GRADIENT		-.04794	.02458	-.00730	-.00026	-.00026	-.00188

RUN NO.		O/ O		RN/L = 2.05		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	BETA	CY	CYN	CBL	CA	CAT	CABT
.980	-11.017	.52840	-.23530	.08665	.42691	.42716	.17039
.981	-8.780	.42182	-.19552	.07157	.42387	.42411	.17289
.981	-6.596	.32229	-.15552	.05652	.41472	.41504	.17361
.980	-4.396	.22140	-.10983	.03901	.40508	.40528	.17447
.980	-2.212	.11604	-.05769	.02033	.39853	.39905	.17650
.979	-.030	.00776	-.00191	.00210	.39506	.39520	.17920
.979	2.128	-.00000	.03458	-.01560	.39709	.39773	.18709
.980	4.347	-.20825	.10833	-.03378	.40216	.40200	.19157
.979	6.530	-.30977	.15372	-.05113	.41179	.41156	.19890
.978	8.710	-.40875	.19380	-.06636	.41661	.41633	.19945
.978	10.931	-.51271	.23594	-.08092	.42029	.41982	.19891
GRADIENT		-.04927	.02513	-.00832	-.00034	-.00036	-.00205

RUN NO.		O/ O		RN/L = 2.11		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	BETA	CY	CYN	CBL	CA	CAT	CABT
1.200	-8.922	.39109	-.15766	.06755	.45916	.45919	.25018
1.201	-6.681	.29802	-.12691	.05347	.45465	.45474	.25060
1.201	-4.437	.20069	-.08958	.03650	.44784	.44817	.24987
1.201	-2.233	.10264	-.04600	.01867	.44177	.44229	.24767
1.201	-.030	.00741	-.00215	.00202	.44011	.44125	.24904
1.201	2.167	-.00846	.04382	-.01443	.43989	.44030	.25569
1.201	4.376	-.18498	.08700	-.03140	.44328	.44309	.26445
1.200	6.607	-.28383	.12672	-.04805	.44813	.44783	.26375
1.201	8.859	-.38262	.16087	-.06327	.45358	.45302	.27107
GRADIENT		-.04370	.02011	-.00767	-.00050	-.00055	-.00169



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 115

LRC 0 TPT 667 1.41 TIP151P201

(080009) (02 MAY 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = .000

RUN NO.		0 / 0		RN/L = 1.50		GRADIENT INTERVAL = -5.00/ 5.00		
MACH	BETA	CY	CYN	CBL	CA	CAT	CFT	CABT
2.000	-6.503	.28459	-.11928	.03925	.37503	.37553	.24846	.12707
2.000	-4.319	.18622	-.07739	.02516	.37599	.37588	.25064	.12924
2.000	-2.166	.09397	-.03858	.01240	.37321	.37525	.25035	.12490
2.000	-1.111	.05052	-.01975	.00633	.37427	.37431	.24981	.12450
2.000	-.017	.00933	-.00341	.00127	.37318	.37307	.24960	.12347
2.000	1.037	-.03595	.01307	-.00355	.37251	.37224	.24970	.12254
2.000	2.093	-.07447	.03163	-.00946	.37326	.37315	.25115	.12199
2.000	4.293	-.16594	.06970	-.02204	.37323	.37312	.25442	.11870
2.000	6.436	-.25921	.10824	-.03546	.37209	.37182	.25750	.11432
2.000	8.632	-.36192	.15569	-.04989	.37228	.37201	.25704	.11498
GRADIENT		-.04050	.01688	-.00537	-.00037	-.00038	.00037	-.00075

RUN NO.		0 / 0		RN/L = 2.50		GRADIENT INTERVAL = -5.00/ 5.00		
MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
2.500	-6.818	.28920	-.11395	.03551	.33147	.33150	.24343	.08608
2.500	-4.503	.18668	-.07317	.02314	.33035	.33028	.24468	.08560
2.500	-2.285	.09619	-.03740	.01153	.32818	.32811	.24358	.08453
2.500	-1.104	.05099	-.01952	.00596	.32828	.32831	.24299	.08532
2.500	-.024	.00922	-.00376	.00093	.32551	.32544	.24099	.08445
2.500	1.062	-.03011	.01266	-.00381	.32644	.32627	.24279	.08348
2.500	2.150	-.06896	.02799	-.00869	.32699	.32682	.24381	.08301
2.500	4.426	-.16086	.06341	-.01998	.32775	.32758	.24622	.08135
2.500	5.598	-.21290	.08381	-.02639	.32632	.32615	.24561	.08054
2.500	6.675	-.25410	.10108	-.03165	.32732	.32715	.24780	.07935
2.500	7.843	-.30978	.12371	-.03906	.32919	.32892	.24955	.07937
GRADIENT		-.03854	.01517	-.00476	-.00031	-.00033	.00014	-.00047

RUN NO.		C / D		RN/L = 2.50		GRADIENT INTERVAL = -5.00/ 5.00			
MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT	
.860	-6.696	.26995	-.10440	.03177	.30252	.30256	.23526	.06730	
.860	-4.440	.17535	-.06675	.02052	.30023	.30005	.23360	.06645	
.860	-2.257	.09168	-.03381	.01013	.29888	.29870	.23217	.06553	
.860	-1.149	.04946	-.01776	.00516	.29797	.29790	.23118	.06673	
.860	-.024	.00841	-.00235	.00067	.29662	.29655	.23056	.06599	
.860	1.057	-.03070	.01268	-.00331	.29704	.29686	.23175	.06511	
.860	2.162	-.07166	.02828	-.00877	.29790	.29772	.23315	.06457	
.860	4.408	-.15988	.06193	-.01937	.29818	.29789	.23508	.06281	
.860	6.626	-.24944	.09316	-.03076	.30009	.29980	.23766	.06214	
.860	8.868	-.35050	.13964	-.04309	.30424	.30424	.24162	.06262	
GRADIENT		-.03764	.01441	-.00445	-.00024	-.00025	.00018	-.00043	

LRC 8 TPT 667 1A41 T1P1S1P201

0045009) (02 MAY 74)

REFERENCE DATA

SREF = 2490.0000 SQ.FT.
 LREF = 1290.3000 INCHES
 BREF = 1290.3000 INCHES
 SCALE = .0150 SCALE

WARP = 976.0000 INCHES
 YWARP = .0000 INCHES
 ZWARP = 400.0000 INCHES

PARAMETRIC DATA

ALPHA = .005 RUDDER = .000

RUN NO. 0/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
3.900	-6.467	.21976	-.08070	.02605	.25033	.25017	.21231	.03766
3.900	-4.269	.14292	-.05128	.01678	.24731	.24715	.20891	.03824
3.900	-2.137	.07054	-.02475	.00819	.24404	.24373	.20689	.03684
3.900	-1.079	.03605	-.01207	.00441	.24342	.24311	.20627	.03684
3.900	-.012	.00502	-.00558	.00112	.24322	.24306	.20594	.03712
3.900	1.050	-.03064	.01232	-.00278	.24386	.24370	.20683	.03687
3.900	2.147	-.06521	.02425	-.00684	.24451	.24435	.20731	.03764
3.900	4.348	-.13881	.05122	-.01556	.24723	.24707	.20925	.03782
3.900	6.466	-.21119	.07833	-.02415	.24955	.24939	.21147	.03791
3.900	8.648	-.29024	.10987	-.03363	.25518	.25487	.21733	.03754
GRADIENT		-.03244	.01179	-.00369	.00003	.00004	.00006	-.00003

RUN NO. 0/ 0 RM/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
4.630	-6.356	.20024	-.06998	.02355	.23597	.23566	.21066	.02481
4.630	-4.223	.13201	-.04518	.01522	.23326	.23286	.20849	.02438
4.630	-2.093	.06484	-.02149	.00744	.22904	.22865	.20393	.02471
4.630	-1.057	.03215	-.00969	.00386	.22916	.22876	.20394	.02493
4.630	-.002	.00064	.00111	.00075	.22906	.22867	.20395	.02471
4.630	1.034	-.02901	.01119	-.00222	.22872	.22833	.20352	.02481
4.630	2.089	-.05894	.02103	-.00555	.22918	.22878	.20409	.02470
4.630	4.223	-.12454	.04444	-.01330	.23209	.23169	.20700	.02470
4.630	6.346	-.19516	.06969	-.02185	.23669	.23629	.21160	.02470
4.630	8.464	-.27044	.09936	-.03075	.24071	.24031	.21492	.02539
GRADIENT		-.03017	.01050	-.00330	-.00011	-.00011	-.00014	.00003

MACH	YAC/L
.596	.449259
.794	.482190
.893	.512725
.980	.510141
1.200	.460264
2.000	.416857
2.500	.333690
2.860	.342960
3.900	.363363
4.630	.347893



DATE 12 JUL 74

TABULATED SOURCE -14, LARC UPW 1056/1073 (1A42A/B)

PAGE 117

LRC 0 TPT 667 1A41 T1P:51P201

(086010) (02 MAY 74)

REFERENCE DATA

REF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = 3.000 RUDDER = -20.000

RUN NO.	0/ 0	RVL = 3.18	GRADIENT	INTERVAL = -5.00/ 5.00				
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.600	-11.864	5.31337	-81345	.20129	.28421	.28434	.08476	.19958
.600	-9.450	5.33335	-63819	.13505	.28595	.28602	.09303	.19300
.599	-7.210	5.38462	-50907	.07316	.28664	.28667	.10146	.18521
.600	-4.971	5.40819	-38205	.02381	.28599	.28600	.10722	.17878
.600	-2.648	5.42874	-25303	-.02358	.28419	.28421	.11137	.17284
.600	-.408	5.45039	-14091	-.06390	.28218	.28234	.11217	.17017
.599	1.892	5.45422	-.02275	-.10368	.27716	.27746	.10858	.16888
.600	4.124	5.44359	.10220	-.14364	.27011	.27052	.10169	.16883
.599	6.359	5.41564	.22330	-.18190	.25985	.26082	.09018	.17064
.599	8.711	5.38083	.35519	-.22605	.24547	.24673	.07749	.15925
.599	10.960	5.34078	.49959	-.27788	.23039	.23171	.06348	.16823
GRADIENT		.00425	.05257	-.01826	-.00170	-.00166	-.00061	-.00105

RUN NO.	0/ 0	RVL = 1.89	GRADIENT	INTERVAL = -5.00/ 5.00				
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.799	-11.393	5.21820	-78060	.16903	.30933	.30899	.11095	.19804
.801	-9.070	5.26490	-62806	.10727	.30738	.30703	.11324	.19179
.800	-6.902	5.29200	-48459	.05038	.30544	.30513	.12039	.18474
.799	-4.723	5.31251	-35541	.00074	.30375	.30347	.12627	.17720
.798	-2.466	5.32727	-22847	-.04633	.30008	.29980	.12888	.17092
.799	-.260	5.33983	-.11019	-.08941	.29715	.29697	.12880	.16817
.799	1.893	5.34386	.00823	-.13294	.28971	.28953	.12408	.16544
.798	4.093	5.33509	.13618	-.17480	.28448	.28435	.11600	.16835
.799	6.353	5.31407	.26875	-.22191	.27908	.27912	.10845	.17066
.800	8.541	5.28421	.39905	-.27284	.27619	.27626	.10522	.16998
.799	10.756	5.25355	.52592	-.32036	.27580	.27587	.10505	.17082
GRADIENT		.00282	.05547	-.01990	-.00222	-.00220	-.00115	-.00106

LRC 8 TPT 667 1A41 T1P1S1P201

(006010) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

RUN NO.	0/ 0	RNVL = 1.99	GRADIENT INTERVAL = -5.00/ 5.00	CA	CAT	CAFT	CABT
ALPHA	BETA	CN	CLM				
-11.600	5.30308	-81889	.16516	.34116	.34102	.13344	.20758
-9.352	5.34349	-.64344	.09037	.33873	.33857	.13846	.20010
-7.005	5.37266	-.47580	.01870	.33870	.33857	.14364	.19493
-4.832	5.38882	-.33466	-.03823	.33785	.33777	.14810	.18967
-2.553	5.40100	-.19283	-.09250	.33580	.33571	.15139	.18432
-.324	5.41174	-.06423	-.14011	.33171	.33161	.14982	.18179
1.926	5.41293	.06850	-.19194	.32828	.32824	.14813	.18011
4.094	5.40484	.19148	-.23704	.32181	.32195	.14004	.18191
6.423	5.38930	.31982	-.27728	.31967	.31978	.13547	.18432
8.564	5.37058	.44555	-.32902	.31815	.31843	.13336	.18508
10.863	5.35014	.56946	-.37106	.31465	.31482	.13076	.18406
GRADIENT	.00198	.05883	-.02226	-.00177	-.00175	-.00086	-.00089

RUN NO.	0/ 0	RNVL = 2.05	GRADIENT INTERVAL = -5.00/ 5.00					
ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT	
-11.925	5.40456	-.87543	.14577	.42095	.42197	.17897	.24300	
-9.654	5.42639	-.69501	.07132	.42393	.42447	.18771	.23676	
-7.226	5.43723	-.51988	.00381	.42258	.42277	.19157	.23119	
-4.928	5.44702	-.36863	-.05464	.42335	.42336	.19854	.22482	
-2.653	5.45096	-.22989	-.10440	.42411	.42409	.20126	.22283	
-.406	5.45336	-.08636	-.15922	.42464	.42457	.20165	.22292	
1.892	5.44958	.05894	-.21822	.42185	.42166	.19489	.22677	
4.192	5.44463	.20384	-.27862	.41658	.41650	.18879	.22771	
6.468	5.42191	.34008	-.33229	.41513	.41503	.18246	.23257	
8.670	5.38724	.47545	-.38468	.40779	.40772	.17286	.23486	
10.957	5.35318	.60350	-.42817	.40241	.40237	.16752	.23485	
GRADIENT	-.00028	.06293	-.02466	-.00070	-.00071	-.00114	.00043	



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1075 (1A42A/B)

PAGE 119

(06010) (02 MAY 74)

LRC 0 TPT 667 1A41 T1P151P201

REFERENCE DATA

SREF = 2695.0000 INCHES
 LREF = 1295.3000 INCHES
 BREF = 1295.3000 INCHES
 SCALE = .0195 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

RUN NO.		0/0		RNL = 2.11		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
1.200	-10.919	5.50664	-79337	.07645	.46593	.46613	.20331
1.201	-9.979	5.50443	-72109	.04650	.46507	.46519	.20232
1.202	-7.557	5.49986	-53374	-.02590	.46280	.46275	.19563
1.201	-5.214	5.50559	-37309	-.08593	.46017	.46000	.19048
1.201	-2.832	5.50846	-21488	-.14457	.45534	.45617	.18446
1.201	-.469	5.51766	-.05141	-.20121	.45566	.45547	.18265
1.201	1.915	5.52271	.08486	-.25692	.45612	.45600	.18927
1.201	4.134	5.52164	.21489	-.35722	.44974	.44966	.19071
1.201	6.438	5.49508	.35139	-.35609	.44172	.44158	.19101
1.201	8.748	5.45746	.48970	-.40494	.43312	.43299	.19044
1.201	11.084	5.44632	.61829	-.44169	.42597	.42583	.18931
GRADIENT		.02193	.06168	-.02336	-.00082	-.00081	.00190

RUN NO.		0/0		RNL = 1.50		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
2.000	-4.267	5.37775	-.31212	.12432	.38404	.38392	.11490
2.000	-2.052	5.36947	-.18029	.07701	.38201	.38189	.11611
2.000	.157	5.35724	-.06051	.03748	.37754	.37742	.11446
2.000	2.361	5.34753	.05742	-.00337	.37252	.37240	.11422
2.000	4.555	5.34788	.17440	-.04481	.36838	.36811	.11337
2.000	6.759	5.35556	.29400	-.08867	.36441	.36414	.11290
2.000	8.976	5.35850	.41936	-.13018	.36125	.36098	.11119
2.000	11.210	5.36152	.54408	-.16557	.35781	.35769	.11011
GRADIENT		-.00370	.05489	-.01899	-.00185	-.00186	-.00022

RUN NO.		0/0		RNL = 1.68		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
2.500	-8.586	5.45328	-.55703	.21859	.35741	.35716	.08177
2.500	-6.306	5.43642	-.42473	.16967	.34916	.34906	.08205
2.500	-.149	5.41280	-.27937	.11221	.34122	.34097	.08051
2.500	-1.967	5.39806	-.17605	.08233	.33595	.33570	.08004
2.500	.269	5.38563	-.05324	.03978	.32889	.32864	.07836
2.500	2.454	5.37841	.04444	.01008	.32278	.32238	.07824
2.500	4.632	5.37690	.14275	-.02167	.31825	.31800	.07781
2.500	6.852	5.37701	.27708	-.07279	.31453	.31428	.07664
2.500	9.060	5.37730	.39325	-.11406	.30936	.30912	.07536
2.500	11.284	5.37004	.51513	-.15323	.30682	.30657	.07375
GRADIENT		-.00416	.04844	-.01547	-.00269	-.00270	-.00028

(06010) (02 MAY 74)

LRC 8 TPT 667 1A41 TIP1SIP201

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 1290.3000 INCHES
 BREF = 1290.3000 INCHES
 SCALE = .0150 SCALE

YMRP = 976.0000 INCHES
 YMRP = .0000 INCHES
 ZMRP = 400.0000 INCHES

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

RUN NO.		O/D		RNVL = 1.61		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CFT
2.860	-11.536	5.38043	-.64539	.24939	.34771	.34726	.28696
2.860	-9.459	5.36600	-.53304	.20530	.33732	.33670	.27603
2.860	-7.225	5.35247	-.40220	.15331	.32557	.32512	.26305
2.860	-5.133	5.34007	-.29790	.11662	.31665	.31637	.25365
2.860	-2.928	5.32437	-.19082	.08208	.30933	.30906	.24718
2.860	-.803	5.31370	-.09881	.05833	.30153	.30108	.23984
2.860	1.352	5.30654	-.00780	.03016	.29448	.29403	.23379
2.860	3.498	5.30296	.08471	.00938	.28832	.28825	.22704
2.860	5.655	5.30016	.18918	-.03678	.28471	.28427	.22384
2.860	7.807	5.29650	.30012	-.08065	.27978	.27934	.22040
2.860	9.987	5.29807	.40912	-.11703	.27514	.27470	.21690
	GRADIENT	-.00342	.04281	-.01279	-.00324	-.00324	-.00310

RUN NO.		O/D		RNVL = 2.50		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CFT
3.900	-11.921	5.46784	-.56289	.20658	.30884	.30854	.27356
3.900	-9.621	5.45330	-.46864	.17754	.29663	.29603	.25964
3.900	-7.426	5.44151	-.36323	.15255	.28427	.28367	.24706
3.900	-5.227	5.42975	-.28943	.12263	.27048	.26988	.23319
3.900	-2.974	5.41720	-.20026	.09401	.25978	.25928	.22249
3.900	-.846	5.40086	-.12051	.07053	.25086	.25036	.21409
3.900	1.339	5.38531	-.04064	.04851	.24417	.24357	.20762
3.900	3.535	5.37904	.04498	.01941	.23788	.23728	.20172
3.900	5.724	5.37649	.13648	-.01382	.23347	.23273	.19696
3.900	7.909	5.37209	.22658	-.04458	.22945	.22871	.19319
3.900	10.110	5.37172	.32548	-.08050	.22519	.22445	.19018
	GRADIENT	-.00598	.03757	-.01132	-.00333	-.00335	-.00317



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1036/1073 (1A42A/B)

PAGE 121

LRC 8 TPT 667 1A42 TIP1SIP201

ID06010) (02 MAY 74)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3500 INCHES YMRP = .0000 INCHES
 BREF = 1295.3500 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = -20.000

RUN NO. 0/ 0 RM/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-10.952	5.34005	-.50314	.18500	.29560	.29483	.27148	.02335
4.630	-8.821	5.33422	-.41983	.16004	.28524	.28466	.26135	.02331
4.630	-6.660	5.32848	-.34384	.13956	.27253	.27176	.24822	.02354
4.630	-4.535	5.32219	-.26227	.11203	.26025	.25929	.23575	.02354
4.630	-2.394	5.31026	-.17800	.08520	.24794	.24717	.22322	.02395
4.630	-.245	5.29650	-.10171	.06417	.23649	.23553	.21148	.02404
4.630	1.880	5.28658	-.02553	.04191	.22692	.22615	.20169	.02446
4.630	3.987	5.28070	.05055	.01944	.21966	.21889	.19443	.02446
4.630	6.148	5.27809	.13082	-.01180	.21370	.21293	.18847	.02446
4.630	8.253	5.27605	.20934	-.03653	.20829	.20752	.18404	.02348
4.630	10.394	5.27102	.29884	-.06700	.20506	.20410	.18094	.02316
GRADIENT		-.00501	.03650	-.01117	-.00480	-.00478	-.00489	.00011

MACH	XAC/L
.600	.347383
.799	.358826
.900	.378409
.979	.391064
1.200	.378655
2.000	.345934
2.500	.319364
2.860	.298830
3.900	.301458
4.630	.305930

LRC 0 TPT 667 1A41 TIP1S1P208

ID86011) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 Sq.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 0/ 0 RN/L = 3.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
.598	-10.896	.38681	-.13761	.04616	.27711	.27817	.08790	.19027
.599	-8.769	.30920	-.11139	.03674	.27786	.27849	.09214	.18636
.599	-6.511	.22612	-.07909	.02519	.27859	.27907	.09652	.18255
.599	-4.352	.14239	-.04357	.01256	.27818	.27874	.10466	.17407
.598	-2.181	.05671	-.00657	-.00057	.27580	.27604	.10794	.16810
.599	-.006	-.02361	.02936	-.01195	.27340	.27411	.11161	.16249
.599	2.171	-.11230	.07061	-.02448	.27486	.27569	.11594	.15975
.598	4.335	-.20112	.11272	-.03933	.27925	.27967	.11901	.16065
.600	6.486	-.28731	.15101	-.03319	.28270	.28273	.12109	.16164
.599	8.760	-.37202	.18242	-.06356	.28359	.28340	.11859	.16481
.598	10.891	-.44371	.20163	-.06904	.28713	.28707	.11637	.17070
GRADIENT		-.03940	.01794	-.00588	.00005	.00007	.00169	-.00162

RUN NO. 0/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
.800	-10.751	.42549	-.16814	.05514	.29865	.29902	.10369	.19533
.801	-8.573	.34109	-.13759	.04418	.29871	.29910	.10886	.19024
.800	-6.365	.24989	-.09953	.03057	.29681	.29712	.11355	.18358
.800	-4.309	.16197	-.06057	.01677	.29375	.29398	.11706	.17692
.801	-2.124	.07024	-.01757	.00220	.28964	.28976	.12007	.16969
.800	-.034	-.01988	.02628	-.01105	.28545	.28595	.12514	.16081
.800	2.059	-.11558	.07435	-.02534	.28828	.28882	.13039	.15844
.800	4.269	-.21481	.12385	-.04122	.29457	.29448	.13624	.15824
.800	6.365	-.30465	.16442	-.05465	.30017	.29988	.13903	.16085
.800	8.528	-.38536	.19310	-.06387	.30363	.30326	.13999	.16327
.799	10.729	-.47144	.22417	-.07440	.30790	.30747	.13832	.16915
GRADIENT		-.04394	.02155	-.00671	.00002	.00000	.00228	-.00227



DATE 12 JUL 74

TABULATED SOURCE , LARC UPWT 1056/1073 (1A42A/B)

PAGE 123

LRC 0 TPT 667 1431 T1P1S1P201

(086011) (02 MAY 74)

REFERENCE DATA

SAEF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0100 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 0/0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
.920	-10.894	.47613	-.20279	.06991	.33824	.33850	.12663	.21195
.931	-9.700	.38103	-.16642	.05250	.33644	.33678	.13245	.20432
.951	-6.471	.28267	-.12455	.03744	.33062	.33094	.13542	.19552
.950	-4.286	.18418	-.07797	.02094	.32464	.32490	.13781	.18709
.950	-2.187	.08398	-.02737	.00444	.31805	.31812	.13969	.17843
.950	-.016	-.02367	.03005	-.01175	.31567	.31639	.14643	.16996
.950	2.146	-.13067	.08678	-.02843	.30771	.30799	.15233	.16856
.950	4.365	-.24070	.14401	-.04580	.32659	.32646	.15615	.17031
.899	6.515	-.33428	.18706	-.06043	.33547	.33513	.16165	.17348
.899	8.638	-.42462	.22244	-.07222	.34320	.34267	.16381	.17886
.950	10.815	-.51569	.25378	-.08241	.35055	.35004	.16334	.18670
GRADIENT		-.04920	.02580	-.00769	.00032	.00029	.00228	-.00199

RUN NO. 0/0 RN/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
.970	-11.020	.50478	-.20967	.07524	.42978	.43004	.17393	.25611
.981	-8.771	.39598	-.16818	.05930	.42860	.42895	.17836	.25559
.978	-6.617	.29375	-.12494	.04257	.41900	.41918	.17996	.23922
.979	-4.375	.18929	-.07664	.02404	.41381	.41396	.18240	.23155
.979	-2.224	.08440	-.02402	.00560	.41091	.41140	.18502	.22638
.979	-.029	-.02625	.03328	-.01347	.40765	.40849	.18780	.22068
.978	2.118	-.13410	.09225	-.03153	.41078	.41090	.19557	.21534
.978	4.357	-.24485	.14631	-.05046	.41776	.41750	.20281	.21468
.980	6.541	-.34885	.19421	-.06869	.43025	.42987	.21114	.21872
.978	8.742	-.44585	.23205	-.08285	.43497	.43451	.21172	.22279
.979	10.932	-.54576	.27064	-.09590	.43858	.43833	.21052	.22760
GRADIENT		-.04984	.02569	-.00854	.00036	.00031	.00236	-.00205

LRC 0 TPT 667 1A41 T1P1S1P201

(000011) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWEP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YWEP = .0000 INCHES
 BREF = 1290.3000 INCHES ZWEP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO.		G/ G		RN/L = 2.11		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	BETA	CY	CYN	CBL	CA	CAT	CABT
1.201	-0.934	.37310	-.13039	.05897	.46206	.46209	.25234
1.201	-0.636	.27346	-.10264	.04270	.45032	.45062	.25384
1.201	-4.439	.17751	-.06485	.02351	.45292	.45329	.25315
1.201	-2.163	.07698	-.01923	.00677	.44733	.44787	.25105
1.201	-.032	-.01869	.02569	-.01037	.44769	.44858	.25431
1.201	2.174	-.11496	.07229	-.02709	.44915	.44920	.25279
1.201	4.399	-.21546	.11799	-.04514	.45292	.45272	.25352
1.201	6.572	-.31235	.15793	-.06199	.45793	.45763	.25706
1.200	8.912	-.41532	.19403	-.07825	.46302	.46263	.27779
1.201	11.164	-.51453	.22554	-.09205	.46856	.46828	.27682
GRADIENT		-.04442	.02077	-.00796	.00000	.00000	-.00000

RUN NO.		G/ G		RN/L = 1.51		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	BETA	CY	CYN	CBL	CA	CAT	CABT
2.000	-6.526	.27178	-.10537	.03348	.37729	.37752	.12346
2.000	-4.325	.17701	-.05613	.02024	.37925	.37925	.12197
2.000	-2.152	.08328	-.02509	.00692	.37903	.37850	.12551
2.000	-.022	-.00204	.00369	-.00430	.37803	.37791	.12195
2.000	2.591	-.08818	.04623	-.01563	.37839	.37812	.12545
2.000	4.288	-.17255	.08424	-.02822	.37890	.37853	.11617
2.000	6.439	-.27728	.12512	-.04268	.37810	.37783	.11354
2.000	8.632	-.37472	.16428	-.05577	.37858	.37831	.11371
GRADIENT		-.04111	.01738	-.00557	-.00000	-.00000	-.00000

RUN NO.		G/ G		RN/L = 1.68		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	BETA	CY	CYN	CBL	CA	CAT	CABT
2.500	-6.503	.25622	-.09440	.02811	.33138	.33068	.08176
2.500	-4.331	.17004	-.05937	.01743	.33028	.33016	.08206
2.500	-2.167	.07841	-.02373	.00590	.33015	.32945	.08183
2.500	-.027	.00214	.00591	-.00370	.32927	.32887	.08192
2.500	2.122	-.08542	.04034	-.01405	.32983	.32943	.08117
2.500	4.290	-.16641	.07348	-.02478	.32993	.32968	.07356
2.500	6.427	-.25190	.10756	-.03559	.33030	.33065	.07826
2.500	8.624	-.35202	.14623	-.04861	.33112	.33272	.07781
GRADIENT		-.03886	.01532	-.00485	-.00000	-.00000	-.00000



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/0)

PAGE 123

LRC 0 TPT 667 1A41 71P1S1P201

(060511) (02 MAY 74)

REFERENCE DATA

SREF = 2895.0000 SQ.FT. DRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BRP = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

RUN NO. 0/ 0 RN/L = 1.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
2.860	-6.447	.24678	-.09044	.02826	.30307	.30193	.24107	.06086
2.860	-4.249	.15392	-.03317	.01498	.30139	.30043	.23896	.06147
2.860	-2.141	.07339	-.02069	.00466	.30104	.30008	.23809	.06199
2.860	-.037	-.00064	.00783	-.00401	.29939	.29860	.23649	.06211
2.860	2.076	-.07856	.03732	-.01318	.30041	.29996	.23723	.06274
2.860	4.246	-.15835	.06854	-.02269	.30123	.30080	.23853	.06228
2.860	6.367	-.24555	.10346	-.03389	.30226	.30181	.24026	.06155
2.860	8.513	-.33949	.14184	-.04556	.30751	.30724	.24591	.06133
GRADIENT		-.03680	.01421	-.00439	-.00004	.00003	-.00008	.00011

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
3.900	-6.506	.21342	-.07370	.02298	.25095	.25035	.21459	.03576
3.900	-4.268	.13543	-.04312	.01343	.24825	.24765	.21144	.03621
3.900	-2.138	.06306	-.01603	.00422	.24563	.24503	.20882	.03621
3.900	-1.082	.02969	-.00412	.00062	.24515	.24441	.20882	.03559
3.900	.011	-.00475	.00912	-.00316	.24500	.24440	.20874	.03556
3.900	1.073	-.04152	.02278	-.00742	.24632	.24572	.21006	.03566
3.900	2.153	-.07721	.03548	-.01176	.24663	.24618	.21227	.03591
3.900	4.303	-.14508	.06047	-.01987	.24953	.24893	.21348	.03546
3.900	6.464	-.22086	.08952	-.02913	.25250	.25176	.21593	.03582
3.900	8.626	-.29988	.12144	-.03879	.25880	.25820	.22306	.03514
GRADIENT		-.03273	.01209	-.00385	.00019	.00020	.00027	-.00008

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CY	CYN	CBL	CA	CAT	CAFT	CABT
4.630	-6.360	.19715	-.06546	.02142	.23571	.23494	.21058	.02436
4.630	-4.222	.12474	-.03797	.01225	.23233	.23156	.20731	.02425
4.630	-2.094	.05782	-.01412	.00438	.22966	.22889	.20464	.02425
4.630	-1.061	.02812	-.00337	.00108	.22995	.22918	.20493	.02425
4.630	-.001	-.00612	.00845	-.00232	.22972	.22895	.20461	.02434
4.630	1.036	-.03730	.01946	-.00596	.22956	.22879	.20453	.02426
4.630	2.093	-.07004	.03153	-.00909	.22960	.22883	.20458	.02425
4.630	4.227	-.13551	.05489	-.01766	.23417	.23321	.20868	.02453
4.630	6.356	-.20681	.08153	-.02672	.23844	.23767	.21295	.02472
4.630	8.459	-.27790	.11031	-.03566	.24308	.24231	.21749	.02481
GRADIENT		-.03077	.01097	-.00352	.00016	.00014	.00011	.00003

REFERENCE DATA

SREF = 2895.0000 SQ.FT. XMRP = 976.0000 INCHES
LREF = 1295.3000 INCHES YMRP = .0000 INCHES
BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
SCALE = .5135 SCALE

PARAMETRIC DATA

ALPHA = .000 RUDDER = -20.000

MACH	YAC/L
.598	.455308
.800	.490486
.950	.524361
.980	.515435
1.201	.467514
2.000	.422693
2.500	.394121
2.860	.386207
3.900	.369305
4.630	.356479



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 127

LRC 0 TPT 667 1A-1 T1P1S1P2O1FR1

(08012) (02 MAY 74)

REFERENCE DATA

SREF = 2095.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 405.0000 INCHES
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO.		0/0	RN/L = 3.19	GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT					
.599	-11.936	.00000	-.79257	.32256	.27083	.27127	.07081	.20046					
.601	-9.680	.00000	-.64393	.26143	.27298	.27358	.07926	.19433					
.603	-7.369	.00000	-.50176	.20382	.27262	.27325	.08747	.18578					
.605	-4.984	.00000	-.37162	.15704	.26965	.27335	.09367	.17668					
.599	-2.819	.00000	-.25430	.11478	.26710	.26845	.09833	.16991					
.600	-.601	.00000	-.14353	.07415	.26410	.26494	.10042	.16452					
.603	1.685	.00000	-.02132	.02917	.25674	.25771	.09833	.15938					
.605	3.928	.00000	.09737	-.01328	.24854	.24954	.09276	.15678					
.603	6.219	.00000	.22170	-.05633	.23736	.23834	.08313	.15521					
.605	8.514	.00000	.35141	-.10401	.22453	.22552	.06984	.15567					
.600	10.832	.00000	.48825	-.16191	.21403	.21504	.05862	.15643					
GRADIENT		.00000	.05244	-.01909	-.00239	-.00235	-.00010	-.00225					

RUN NO.		0/0	RN/L = 1.90	GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT					
.800	-11.449	.00000	-.76282	.30998	.29821	.29835	.10098	.19737					
.801	-9.218	.00000	-.61469	.24968	.29511	.29538	.10450	.19088					
.803	-6.950	.00000	-.47513	.19472	.28976	.29016	.10731	.18285					
.805	-4.828	.00000	-.34384	.14314	.28632	.28670	.11348	.17322					
.800	-2.575	.00000	-.21947	.09442	.28133	.28187	.11470	.16718					
.803	-.453	.00000	-.10297	.04895	.27589	.27651	.11733	.15917					
.805	1.740	.00000	.01870	-.05183	.26874	.26930	.11554	.15426					
.799	3.940	.00000	.14319	-.04779	.26361	.26408	.10799	.15609					
.800	6.154	.00000	.27695	-.09717	.25794	.25838	.10252	.15586					
.799	8.325	.00000	.39791	-.14109	.25830	.25863	.09932	.15931					
.799	10.557	.00000	.51767	-.19807	.26333	.26357	.09936	.16420					
GRADIENT		.00000	.05548	-.02188	-.00265	-.00265	-.00049	-.00216					

LRC 8 TPT 667 1A41 TIP1SIP20XFR1

(048512) (52 MAY 74)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RIDER = .500

RUN NO. 0/ 0 PNL = 1.99 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.899	-11.762	.00000	-.81818	.33432	.32742	.32741	.12513	.25729
.901	-9.449	.00000	-.63562	.26454	.32276	.32273	.12795	.19478
.905	-7.209	.00000	-.48897	.19477	.31933	.31942	.13183	.18759
.899	-4.936	.00000	-.33386	.12993	.31537	.31557	.13303	.18254
.900	-2.704	.00000	-.19440	.07390	.31012	.31041	.13605	.17436
.900	-.455	.00000	-.03752	.01847	.30254	.30308	.13906	.16402
.900	1.755	.00000	.07572	-.04058	.29577	.29533	.13779	.15854
.899	3.975	.00000	.20215	-.09245	.29423	.29477	.13474	.16053
.899	6.217	.00000	.31837	-.12369	.29763	.29789	.13150	.16640
.899	8.440	.00000	.45037	-.17822	.29860	.29873	.12482	.17392
.898	10.644	.00000	.56005	-.21580	.29871	.29890	.11957	.17933
GRADIENT		.00000	.09027	-.02511	-.00254	-.00250	.00023	-.00273

RUN NO. 0/ 0 PNL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.981	-12.079	.00000	-.87930	.35217	.41083	.41145	.16559	.24586
.979	-9.747	.00000	-.69123	.27475	.40537	.40570	.17257	.23312
.981	-7.429	.00000	-.51911	.20354	.40593	.40595	.17892	.22703
.981	-5.143	.00000	-.36586	.14704	.40277	.40280	.18219	.22051
.979	-2.801	.00000	-.22028	.09338	.39468	.39489	.18384	.21105
.979	-.558	.00000	-.09195	.05026	.39425	.39492	.18364	.21129
.979	1.689	.00000	.05061	-.00667	.39395	.39479	.18185	.21295
.979	3.925	.00000	.20255	-.08424	.39557	.39646	.18021	.21625
.978	6.219	.00000	.34456	-.13879	.39109	.39204	.17385	.21818
.979	8.477	.00000	.47092	-.18089	.39288	.39430	.16851	.22578
.979	10.713	.00000	.59379	-.23290	.38635	.38773	.16145	.22628
GRADIENT		.00000	.06232	-.02631	.00011	.00020	-.00057	.00077

LRC R TPT 667 1.41 TIP1SIP201FR1

ID06012) (02 MAY 74)

REFERENCE DATA

SHEF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
1.201	-12.322	.00000	-.92734	.36131	.46219	.46247	.24929	.21310
1.201	-10.088	.00000	-.71247	.26983	.46008	.46026	.25040	.20985
1.201	-7.685	.00000	-.53306	.20264	.45542	.45549	.25066	.20483
1.201	-5.304	.00000	-.37307	.14392	.45186	.45183	.25221	.19962
1.201	-2.956	.00000	-.21231	.08336	.44897	.44908	.25656	.19252
1.201	-.627	.00000	-.06655	.02983	.44628	.44691	.25651	.19040
1.201	1.676	.00000	.07707	-.02361	.44312	.44399	.25552	.18847
1.201	3.992	.00000	.21379	-.08046	.44255	.44347	.25424	.18923
1.201	6.239	.00000	.34136	-.12821	.43687	.43784	.24917	.18667
1.201	8.559	.00000	.47816	-.18720	.42317	.42394	.24338	.18056
1.201	10.852	.00000	.59387	-.21752	.41714	.41789	.23531	.18258
1.201	GRADIENT	.00000	.06143	-.02354	-.00097	-.00085	-.00034	-.00031

RUN NO. 0/0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-4.230	-.00991	-.28405	.10337	.37975	.37963	.26530	.11432
2.000	-2.036	-.00993	-.16390	.06323	.37975	.37947	.26306	.11641
2.000	.196	-.01269	-.04538	.02569	.37769	.37757	.26048	.11709
2.000	2.387	-.01333	.06928	-.01367	.37331	.37304	.25510	.11794
2.000	4.581	-.01573	.18758	-.03829	.36760	.36748	.25090	.11658
2.000	6.766	-.01385	.30076	-.09697	.36378	.36581	.24994	.11588
2.000	8.989	-.01719	.42339	-.13511	.36592	.36580	.25036	.11543
2.000	11.204	-.01967	.53285	-.15874	.36503	.36491	.25022	.11469
2.000	GRADIENT	-.00068	.05337	-.01815	-.00139	-.00139	-.00167	.00027

RUN NO. 0/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.500	-9.229	-.01943	-.57916	.2.887	.36208	.36190	.27523	.08667
2.500	-6.798	-.01799	-.42687	.16069	.35156	.35138	.26407	.08731
2.500	-4.511	-.02542	-.29410	.11423	.34456	.34439	.25799	.08640
2.500	-2.167	-.02343	-.17089	.07447	.33809	.33792	.25270	.08521
2.500	.138	-.03308	-.06651	.04691	.33354	.33316	.24936	.08341
2.500	2.423	-.03589	.03729	.01475	.32700	.32663	.24784	.08279
2.500	4.735	-.04305	.15261	-.02656	.32082	.32045	.23848	.08196
2.500	7.054	-.04809	.28129	-.07264	.31879	.31852	.23729	.08123
2.500	9.385	-.04052	.40557	-.11910	.31601	.31574	.23525	.08049
2.500	11.742	-.03811	.52626	-.14637	.31224	.31217	.23195	.08021
2.500	GRADIENT	-.00207	.04773	-.01479	-.00254	-.00256	-.00207	-.00049

LRC 0 TPT 667 1A41 T1P1S1P2O1F1

(080012) 1 02 MAY 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.860	-12.240	-.00312	-.68474	.26187	.34864	.34801	.28428	.56373
2.865	-10.641	-.01246	-.55452	.20656	.33842	.33779	.27292	.56487
2.865	-7.700	-.00888	-.42771	.15302	.32608	.32550	.26507	.56549
2.865	-5.460	-.01958	-.30339	.11330	.31535	.31483	.24856	.56627
2.865	-3.220	-.02134	-.19283	.07523	.30870	.30830	.24214	.56615
2.865	-.948	-.01595	-.09934	.05011	.30251	.30207	.23629	.56574
2.865	1.295	-.02282	-.00833	.02749	.29658	.29596	.23181	.56415
2.865	3.505	-.02257	.08065	-.05111	.28855	.28834	.22459	.56374
2.865	5.752	-.02318	.18371	-.03739	.28383	.28354	.22013	.56344
2.865	8.033	-.02670	.30190	-.07970	.28048	.28019	.21843	.56176
2.865	10.313	-.03040	.42077	-.12229	.27505	.27476	.21345	.56131
GRADIENT		-.00047	.04065	-.01122	-.00292	-.00294	-.00255	-.00039

RUN NO. 0/0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-11.823	-.00632	-.55014	.19644	.30205	.30175	.26347	.53828
3.900	-9.621	-.01409	-.45621	.16618	.29197	.29167	.24307	.53859
3.900	-7.392	-.01192	-.36723	.13964	.27936	.27936	.24061	.53845
3.900	-5.205	-.00812	-.27649	.11011	.26612	.26596	.22753	.53843
3.900	-2.998	-.00862	-.18936	.08385	.25487	.25477	.21675	.53771
3.900	-.859	-.01106	-.11127	.05103	.24789	.24773	.20327	.53846
3.900	1.364	-.01083	-.03305	.04089	.24062	.24032	.20000	.53789
3.900	3.532	-.01324	.04462	.01675	.23618	.23558	.19731	.53857
3.900	5.693	-.01581	.12237	-.00725	.23087	.23071	.18230	.53840
3.900	7.884	-.01640	.21026	-.03622	.22634	.22604	.17825	.53879
3.900	10.088	-.01265	.30738	-.07072	.22146	.22116	.17476	.53840
3.900	12.332	-.01034	.41302	-.10993	.21721	.21691	.17211	.53779
GRADIENT		-.00062	.03376	-.01015	-.00290	-.00291	-.00300	-.00039

DATE 12 JUL 74

TABULATED SOURCE C-1, LARC UPWT 1056/1073 (1A42A/B)

PAGE 131

LRC 8 TPT 667 1A-1 TIP1SIP201FR1

(046012) (02 MAY 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RVL = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-10.931	-.00182	-.48968	.17407	.29064	.29025	.26433	.02591
4.630	-8.807	-.00420	-.40640	.14840	.27989	.27950	.25317	.02633
4.630	-6.658	-.00592	-.33031	.12690	.26595	.26556	.23923	.02633
4.630	-4.527	-.00579	-.24777	.10055	.25351	.25331	.22656	.02675
4.630	-2.399	-.00628	-.17012	.07690	.24250	.24211	.21536	.02675
4.630	-.230	-.00471	-.09603	.05731	.23107	.23068	.20416	.02652
4.630	1.908	-.00730	-.02587	.04036	.22385	.22365	.19649	.02715
4.630	3.995	-.00716	.04760	.01735	.21818	.21760	.19155	.02604
4.630	6.106	-.00838	.12097	-.00587	.21146	.21107	.18483	.02623
4.630	8.247	-.01005	.20014	-.03127	.20513	.20474	.17828	.02646
4.630	10.394	-.00853	.29088	-.06386	.19941	.19902	.17367	.02534
GRADIENT		-.00018	.03442	-.00950	-.00419	-.00421	-.00417	-.00005

MACH	XAC/L
.599	.364022
.800	.394396
.899	.416660
.981	.417948
1.201	.383221
2.000	.340170
2.500	.309821
2.860	.276014
3.900	.283795
4.630	.276070

LRC UPWT 1056/1073 1A42A/B T1P1S1P201FR1 (080013) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RIDDER = .000

RUN NO. 0/0 RNVL = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-4.247	5.45647	-.29070	.10782	.38181	.38138	.27032	.11086
2.000	-2.044	5.39425	-.16816	.06585	.38033	.37990	.26831	.11159
2.000	.174	5.38729	-.05077	.02767	.37688	.37661	.26505	.11156
2.000	2.379	5.38033	.06905	-.01356	.37274	.37232	.26039	.11192
2.000	4.570	5.37702	.18099	-.05315	.36699	.36672	.25550	.11122
2.000	6.770	5.38391	.30151	-.09719	.36274	.36247	.25191	.11056
2.000	8.995	5.39303	.42625	-.13794	.35971	.35944	.25006	.10938
2.000	11.225	5.39568	.54959	-.17276	.35724	.35697	.24749	.10948
GRADIENT		-.00330	.05353	-.01820	-.00169	-.00167	-.00172	.00055

RUN NO. 0/0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.500	-9.224	5.68893	-.58681	.22659	.36100	.36103	.27963	.08140
2.500	-6.806	5.65125	-.43070	.16392	.35378	.35391	.27152	.08239
2.500	-4.527	5.62466	-.30688	.12159	.34487	.34480	.26325	.08155
2.500	-2.171	5.60555	-.17537	.07653	.33838	.33821	.25764	.08057
2.500	.146	5.59710	-.06173	.04201	.33217	.33190	.25322	.07868
2.500	2.460	5.58931	.04558	.00778	.32601	.32574	.24701	.07872
2.500	4.766	5.58414	.17189	-.03688	.32024	.32007	.24114	.07893
2.500	7.072	5.57491	.29005	-.07920	.31705	.31678	.23929	.07749
2.500	9.424	5.57474	.42477	-.12438	.31233	.31206	.23573	.07633
2.500	11.779	5.57411	.55213	-.16546	.30637	.30620	.23072	.07548
GRADIENT		-.00596	.05076	-.01661	-.00265	-.00267	-.00236	-.00031

RUN NO. 0/0 RNVL = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.860	-12.234	5.62602	-.68908	.26111	.35156	.35115	.29034	.06081
2.860	-10.097	5.59286	-.56539	.21430	.34062	.34044	.27725	.06308
2.860	-7.699	5.57099	-.43434	.16403	.32881	.32874	.26404	.06470
2.860	-5.504	5.54652	-.31875	.12373	.31862	.31844	.25420	.06424
2.860	-3.225	5.53111	-.20446	.08415	.31036	.31007	.24630	.06377
2.860	-.946	5.50512	-.10212	.05294	.30147	.30118	.23872	.06246
2.860	1.284	5.49565	-.00773	.02515	.29475	.29446	.23280	.06165
2.860	3.523	5.49957	.09103	-.00954	.28868	.28828	.22597	.06241
2.860	5.787	5.48284	.20551	-.05028	.28418	.28389	.22197	.06192
2.860	8.089	5.48797	.32292	-.09237	.28001	.27972	.21947	.06026
2.860	10.332	5.48852	.43152	-.13196	.27648	.27619	.21694	.05925
GRADIENT		-.00464	.04365	-.01368	-.00319	-.00321	-.00299	-.00022

DATE 12 JUL 74

TABULATED SOURCE LARC UPWT 1056/1073 (1A32A/B)

PAGE 133

LRC UPWT 1056/1073 1A42A/B T1P1S1P2OMFR1

(006013) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-11.930	5.50497	-.56177	.20068	.30855	.30839	.27147	.03692
3.900	-9.617	5.48944	-.46449	.17006	.29623	.29578	.25874	.03700
3.900	-7.423	5.48038	-.37901	.14570	.28484	.28454	.24683	.03771
3.900	-5.230	5.46986	-.28861	.11705	.27052	.27022	.23272	.03749
3.900	-3.028	5.45689	-.19655	.08659	.25964	.25934	.22145	.03788
3.900	-.856	5.44133	-.11690	.06368	.25074	.25029	.21220	.03809
3.900	1.334	5.42716	-.03694	.04294	.24370	.24340	.20522	.03817
3.900	3.526	5.42164	.04864	.01405	.23806	.23776	.19993	.03783
3.900	5.689	5.41849	.13717	-.01785	.23435	.23390	.19608	.03782
3.900	7.901	5.41216	.22999	-.04966	.23003	.22973	.19227	.03746
3.900	10.102	5.41326	.32882	-.08511	.22590	.22560	.18885	.03675
GRADIENT		-.00549	.03732	-.01091	-.00328	-.00328	-.00327	-.00000

RUN NO. 0/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-11.068	5.37926	-.50330	.17941	.29451	.29431	.26792	.02639
4.630	-8.843	5.37360	-.41919	.15521	.28536	.28497	.25870	.02626
4.630	-6.677	5.36865	-.34017	.13255	.27347	.27308	.24711	.02597
4.630	-4.545	5.36044	-.25801	.10681	.25989	.25950	.23282	.02668
4.630	-2.404	5.35118	-.17757	.08195	.24728	.24670	.22063	.02664
4.630	-.276	5.33683	-.10111	.06022	.23520	.23481	.20762	.02718
4.630	1.848	5.32826	-.02477	.03857	.22615	.22576	.19927	.02649
4.630	3.994	5.32057	.05134	.01273	.21856	.21817	.19149	.02668
4.630	6.106	5.31736	.13165	-.01484	.21343	.21304	.18588	.02715
4.630	8.256	5.31473	.21367	-.04191	.20845	.20806	.18159	.02647
4.630	10.400	5.30982	.30344	-.07146	.20503	.20464	.17913	.02551
GRADIENT		-.00481	.03617	-.01086	-.00487	-.00486	-.00488	.00002

MACH	XAC/L
2.000	.339948
2.500	.327274
2.860	.313336
3.900	.292292
4.630	.300131

LRC 0 TPT 667 1A41 TAP6S1P201

(086014) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1293.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 3.18 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.599	-11.733	-.01532	-.80187	.33800	.26524	.26586	.07711	.18875
.599	-9.371	-.01607	-.65672	.27932	.26829	.26702	.08206	.18495
.599	-7.172	-.01168	-.52044	.22542	.26602	.26680	.08703	.17977
.601	-4.856	-.00558	-.38868	.17385	.26324	.26410	.09360	.17050
.599	-2.615	-.00227	-.26667	.12761	.26258	.26351	.10028	.16324
.599	-.378	.01149	-.14915	.08282	.25936	.26049	.10140	.15909
.599	1.945	.02130	-.02380	.03422	.25358	.25486	.10027	.15459
.600	4.318	.02676	.10069	-.01081	.24579	.24739	.09424	.15315
.599	6.458	.02284	.22132	-.05316	.23520	.23708	.08453	.15255
.600	8.707	.01926	.35149	-.10372	.22413	.22601	.07325	.15277
.601	10.968	.01352	.49357	-.16391	.21166	.21350	.06064	.15286
GRADIENT		.00385	.05332	-.02020	-.00192	-.00184	.00204	-.00189

RUN NO. 0/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.799	-11.433	-.00616	-.78360	.32856	.29297	.29327	.10176	.19151
.800	-9.037	-.00576	-.62541	.26436	.28918	.28961	.10269	.18692
.799	-6.790	-.00646	-.48536	.20828	.28350	.28379	.10502	.17877
.799	-4.695	-.00748	-.35769	.15741	.28003	.28053	.11052	.17001
.800	-2.489	-.00201	-.22870	.10580	.27540	.27657	.11442	.16165
.799	-.256	.00591	-.10985	.05837	.27091	.27205	.11696	.15509
.799	1.900	.01736	.00833	.00813	.26437	.26573	.11428	.15146
.799	4.195	.01878	.14210	-.04037	.26033	.26189	.10917	.15273
.799	6.359	.01433	.27091	-.08918	.25468	.25647	.10359	.15289
.799	8.511	.01061	.39497	-.13607	.25749	.25921	.10.06	.15615
.799	10.676	.00998	.51098	-.18172	.26041	.26220	.10139	.16082
GRADIENT		.00324	.05578	-.02225	-.00227	-.00215	-.00013	-.00201

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 135

LEC 8 TPT 667 . . . 14P65:R201

(036014) (02 MAY 74)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.900	-11.546	-.00426	-.82270	.34590	.32722	.32744	.12398	.20346
.901	-9.239	-.00807	-.63225	.27086	.32426	.32462	.12611	.19851
.902	-6.963	-.00719	-.48853	.20025	.31738	.31800	.12894	.18906
.903	-4.686	-.00409	-.33662	.13656	.31276	.31348	.13419	.17929
.905	-2.446	-.00086	-.19151	.07692	.30690	.30774	.13622	.17152
.899	-.246	.00788	-.05268	.02063	.30211	.30309	.13787	.16522
.900	1.952	.01824	.08439	-.04321	.29507	.29610	.13800	.15810
.900	4.208	.02223	.21231	-.09636	.29414	.29545	.13578	.15967
.899	6.483	.01642	.32786	-.12832	.29591	.29717	.13272	.16446
.899	8.599	.01054	.44849	-.17287	.29898	.29999	.12805	.17194
.899	10.793	.00990	.55893	-.21122	.30044	.30120	.12168	.17952
GRADIENT		.00315	.05192	-.02641	-.00221	-.00215	.00022	-.00237

RUN NO. 0/0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.978	-11.966	.03322	-.88668	.36200	.40534	.40563	.16054	.24510
.979	-9.547	.00121	-.68914	.27943	.40249	.40279	.16627	.23653
.981	-7.171	-.00275	-.51308	.20797	.39395	.40055	.17326	.22729
.980	-4.907	-.00275	-.35668	.14778	.39520	.39605	.17784	.21320
.979	-2.687	-.00043	-.21966	.09660	.39001	.39113	.17912	.21200
.979	-.376	.01222	-.08661	.05169	.39021	.39151	.17980	.21171
.980	1.927	.02089	.05700	-.00792	.39050	.39165	.17780	.21385
.980	4.165	.02611	.20790	-.08276	.39612	.39711	.17609	.21902
.979	6.401	.01599	.35132	-.14165	.39195	.39290	.17610	.22281
.978	8.691	.01268	.48471	-.18840	.38739	.38878	.16296	.22582
.977	10.914	.01023	.60008	-.23266	.38365	.38561	.15584	.22978
GRADIENT		.00348	.06177	-.02485	.00010	.00012	-.00004	.00015

LRC 8 TPT 667 1A41 74P6S1P201

(066014) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0135 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
1.201	-12.416	.01133	-.94443	.37725	.45789	.45767	.23940	.21847
1.201	-9.903	.00571	-.72585	.28402	.45398	.45403	.23828	.21574
1.201	-7.395	-.00123	-.53610	.21083	.44958	.44953	.23974	.20978
1.201	-5.080	-.00496	-.37782	.15163	.44523	.44537	.24334	.20203
1.201	-2.757	-.00031	-.21730	.08966	.44135	.44206	.24596	.19610
1.201	-.457	.00941	-.06144	.02952	.44131	.44241	.24831	.19411
1.201	1.855	.02303	.08483	-.02660	.44046	.44134	.24791	.19343
1.201	4.185	.02686	.22055	-.08402	.43997	.44095	.24622	.19474
1.201	6.482	.01824	.33786	-.13695	.43105	.43206	.23908	.19298
1.201	8.685	.01109	.48509	-.19346	.42064	.42165	.23358	.18827
1.201	11.009	-.00700	.60499	-.22458	.41616	.41712	.22741	.18971
GRADIENT		.00414	.06309	.02494	-.00022	-.00019	.00001	-.00020

RUN NO. 0/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-4.280	-.01078	-.29362	.11350	.37894	.37851	.25944	.11907
2.000	-2.072	-.01019	-.17380	.07335	.37744	.37744	.25660	.12085
2.000	.134	-.01153	-.05899	.03633	.37483	.37456	.25323	.12133
2.000	2.331	-.01252	.05804	-.00562	.36923	.36881	.24949	.11932
2.000	4.518	-.01411	.17156	-.04817	.36363	.36336	.24545	.11791
2.000	6.717	-.01495	.29888	-.10010	.35040	.35013	.24447	.11566
2.000	8.933	-.01812	.42364	-.14189	.35964	.35952	.24497	.11455
2.000	11.156	-.02264	.53806	-.17133	.35831	.35819	.24428	.11391
GRADIENT		-.00041	.05283	-.01829	-.00178	-.00177	-.00159	-.00017

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.500	-9.215	-.02516	-.57684	.22620	.35367	.35339	.26874	.08465
2.500	-6.816	-.02685	-.43118	.16744	.34406	.34378	.25890	.08488
2.500	-4.5	-.03562	-.29933	.12073	.33711	.33673	.25271	.08403
2.500	-2.206	-.04210	-.17434	.07763	.33193	.33155	.24806	.08350
2.500	.101	-.01873	-.07505	.05268	.32841	.32804	.24554	.08250
2.500	2.387	-.03780	.02405	.02114	.32086	.32059	.23911	.08147
2.500	4.666	-.04099	.14221	-.02099	.31603	.31566	.23513	.08053
2.500	6.964	-.03618	.26078	-.06292	.31365	.31328	.23391	.07936
2.500	9.309	-.03606	.38946	-.10953	.31013	.30986	.23096	.07889
2.500	11.669	-.04061	.52124	-.15269	.30570	.30553	.22754	.07799
GRADIENT		-.00027	.04702	-.01478	-.00231	-.00231	-.00192	-.00039



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 137

LRC 8 TPT 667 LARC 74P6S1P201

(066014) (02 MAY 74)

REFERENCE DATA

SREF = 2895.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.860	-12.247	-.00453	-.68212	.26566	.34270	.34229	.27885	.06344
2.860	-10.040	-.00383	-.55035	.21122	.33221	.33169	.26785	.06384
2.860	-7.711	-.00381	-.42994	.16780	.32091	.32061	.25603	.06458
2.860	-5.507	-.01052	-.31469	.12429	.31114	.31073	.24597	.06477
2.860	-3.267	-.01776	-.20408	.08489	.30411	.30337	.23992	.06345
2.860	-1.505	-.01572	-.10698	.05673	.29891	.29840	.23491	.06348
2.860	1.233	-.02002	-.01854	.03250	.29250	.29199	.22943	.06256
2.860	3.455	-.02561	.07149	.00481	.28552	.28512	.22280	.06231
2.860	5.686	-.02488	.16932	-.02953	.28091	.28051	.21913	.06138
2.860	7.949	-.03231	.28260	-.07089	.27650	.27621	.21555	.06266
2.865	10.218	-.03118	.40260	-.11683	.27315	.27286	.21271	.06015
GRADIENT		-.00124	.04085	-.01180	-.00277	-.00273	-.00254	-.00019

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-11.844	.00468	-.54898	.20065	.30089	.30059	.26358	.03701
3.900	-9.647	.00305	-.45454	.16907	.29131	.29086	.25266	.03820
3.900	-7.440	.00115	-.36600	.14246	.27969	.27939	.24055	.03884
3.900	-5.257	.00133	-.27869	.11442	.26753	.26708	.22890	.03818
3.900	-3.057	.00030	-.19178	.08621	.25739	.25690	.21894	.03796
3.900	-.878	-.00016	-.11358	.06399	.24922	.24892	.21056	.03836
3.900	1.313	-.00389	-.03565	.04311	.24380	.24335	.20553	.03782
3.900	3.469	-.00628	.03760	.02150	.23859	.23829	.20015	.03814
3.900	5.631	-.00610	.11668	-.00403	.23386	.23356	.19596	.03760
3.900	7.821	-.00726	.20607	-.03466	.22855	.22825	.19173	.03652
3.900	10.027	-.00554	.30442	-.07087	.22362	.22332	.18697	.03635
GRADIENT		-.00108	.03519	-.00988	-.00283	-.00282	-.00282	-.00000

DATE 12 JUL 74

PAGE 138

TABULATED SOURCE DATA, LARC UPWT 1058/1073 (1A42A/G)

0000141 (02 MAY 74)

LRC 0 TPT 067 1A41 T4P0S1P201

REFERENCE DATA

SREF = 2095.0000 SQ.FT. XREF = 976.0000 INCHES
LREF = 1295.3500 INCHES YREF = .0000 INCHES
BREF = 1295.3500 INCHES ZREF = 405.0000 INCHES
SCALE = .0195 SCALE

PARAMETRIC DATA

BETA = .000 RIDSEP = .000

RUN NO. C/ D H/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CM	CLM	CA	CAT	CAFT	CABT
4.630	-15.372	.02272	-.48108	.17421	.20963	.20903	.26304	.02601
4.630	-8.830	-.00159	-.39784	.14647	.27870	.27831	.25198	.02633
4.630	-6.753	-.00267	-.32233	.12320	.26620	.26562	.24001	.02561
4.630	-4.565	-.00132	-.24380	.10111	.25534	.25495	.22799	.02595
4.630	-2.441	-.00178	-.16390	.07999	.24599	.24531	.21856	.02672
4.630	-.308	-.00164	-.08574	.05512	.23533	.23544	.20619	.02725
4.630	1.623	-.00212	-.00590	.04135	.22804	.22745	.20021	.02725
4.630	3.546	-.00259	.04233	.02824	.22185	.22127	.19413	.02714
4.630	6.071	-.00315	.11795	-.00308	.21522	.21464	.18841	.02683
4.630	8.210	-.00476	.25213	-.03303	.20835	.20796	.18192	.02604
4.630	10.349	-.00519	.29169	-.06423	.20262	.20223	.17619	.02604
GRADIENT		-.00014	.03363	-.00322	-.00398	-.00400	-.00414	.00004

MACH	XAC/L
.999	.378736
.799	.395723
.500	.426330
.978	.402271
1.801	.395358
2.555	.345142
2.500	.314299
2.695	.268977
3.900	.240552
4.630	.274147

DATE 12 JUL 74

PAGE 139

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

(08015) (02 MAY 74)

LRC UPWT 1066/1073 1A42A/B TAP6S1P201

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-4.286	5.38262	-.29845	.11659	.38071	.38059	.26539	.11520
2.000	-2.034	5.36814	-.17044	.07029	.37776	.37733	.26210	.11524
2.000	.139	5.36037	-.05623	.03223	.37376	.37349	.25955	.11394
2.000	2.338	5.35243	.06327	-.00983	.36846	.36819	.25461	.11358
2.000	4.534	5.34895	.18203	-.05444	.36351	.36380	.25068	.11312
2.000	6.728	5.35649	.30328	-.10143	.36040	.36013	.24780	.11234
2.000	8.933	5.36305	.41913	-.13791	.35665	.35638	.24593	.11045
2.000	11.167	5.36633	.54781	-.17858	.35268	.35256	.24306	.10950
GRADIENT		-.00378	.05428	-.01918	-.00195	-.00194	-.00168	-.00026

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.500	-9.246	5.65950	-.59015	.23216	.35754	.35757	.27446	.08311
2.500	-.825	5.62572	-.43605	.17119	.35155	.35168	.26841	.08326
2.500	-4.563	5.62360	-.31294	.12863	.34249	.34252	.26043	.08209
2.500	-2.232	5.59268	-.18433	.08352	.33420	.33413	.25341	.08072
2.500	.088	5.57513	-.07473	.05048	.32887	.32880	.24925	.07955
2.500	2.333	5.55889	.03912	.00912	.32207	.32180	.24277	.07903
2.500	4.685	5.54417	.15854	-.03468	.31723	.31706	.23878	.07828
2.500	6.997	5.54204	.28686	-.08202	.31225	.31218	.23529	.07689
2.500	9.350	5.54362	.41485	-.12727	.30770	.30763	.23216	.07547
2.500	11.690	5.53308	.54690	-.17358	.30372	.30355	.22955	.07399
GRADIENT		-.00791	.05047	-.01735	-.00271	-.00274	-.00233	-.00040

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.860	-12.265	5.61163	-.68948	.27163	.34910	.34869	.28725	.06144
2.860	-10.060	5.58829	-.56356	.22003	.33774	.33744	.27378	.06366
2.860	-7.720	5.56697	-.43311	.16871	.32776	.32769	.26310	.06459
2.860	-5.553	5.53686	-.32305	.12687	.31638	.31631	.25235	.06395
2.860	-3.253	5.51355	-.20607	.08784	.30791	.30773	.24459	.06314
2.860	-1.003	5.49746	-.11034	.05844	.29974	.29945	.23715	.06230
2.860	1.229	5.48583	-.01439	.02895	.29335	.29317	.23161	.06156
2.860	3.454	5.47204	.08065	-.00442	.28721	.28692	.22509	.06183
2.860	5.707	5.47990	.19219	-.04604	.28320	.28291	.22185	.06106
2.860	7.990	5.47678	.30735	-.08752	.27787	.27758	.21821	.05937
2.860	10.273	5.47300	.42822	-.13201	.27319	.27290	.21585	.05705
GRADIENT		-.00609	.04277	-.01370	-.00306	-.00307	-.00286	-.00021

(046015) (02 MAY 74)

LRC UPWT 1056/1073 1A42A/B T4P6S1P201

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES YMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-11.863	5.45257	-55300	.20226	.30797	.30767	.27044	.03723
3.900	-9.656	5.44134	-46166	.17286	.29648	.29618	.25923	.03695
3.900	-7.467	5.43493	-37593	.14796	.28650	.28650	.24873	.03727
3.900	-5.263	5.42638	-28562	.11870	.27339	.27294	.23506	.03788
3.900	-3.070	5.41340	-19672	.08910	.26311	.26266	.22500	.03765
3.900	-.894	5.39590	-11707	.06625	.25427	.25382	.21566	.03816
3.900	1.297	5.38366	-.03722	.04358	.24658	.24658	.20811	.03847
3.900	3.480	5.37755	.04683	.01586	.24105	.24060	.20243	.03817
3.900	5.645	5.37318	.13100	-.01397	.23668	.23638	.19843	.03795
3.900	7.841	5.36752	.22543	-.04827	.23229	.23184	.19426	.03758
3.900	10.057	5.36288	.32290	-.08181	.22807	.22762	.19057	.03755
GRADIENT		-.00348	.03711	-.01110	-.00337	-.00336	-.00345	.00008

RUN NO. 0/0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-10.998	5.32596	-49809	.18007	.29579	.29540	.26847	.02693
4.630	-8.853	5.32607	-41228	.15459	.28581	.28542	.25932	.02610
4.630	-6.725	5.32246	-33272	.13028	.27372	.27314	.24681	.02633
4.630	-4.583	5.31497	-25462	.10750	.26211	.26172	.23558	.02614
4.630	-2.448	5.30376	-17359	.08247	.25121	.25063	.22380	.02683
4.630	-.310	5.29271	-.09765	.06015	.23922	.23883	.21158	.02725
4.630	1.832	5.28401	-.02144	.03736	.22985	.22946	.20221	.02725
4.630	3.946	5.28021	.05295	.01299	.22260	.22221	.19432	.02789
4.630	6.079	5.27312	.13124	-.01363	.21717	.21678	.18972	.02756
4.630	8.212	5.26807	.21137	-.03980	.21252	.21213	.18507	.02756
4.630	10.353	5.26257	.30317	-.07233	.20729	.20690	.18076	.02514
GRADIENT		-.00419	.03598	-.01097	-.00471	-.00470	-.00428	.00018

MACH	XAC/L
2.000	.353383
2.500	.343783
2.860	.320307
3.900	.299064
4.630	.304968

DATE 12 JUL 74

TABULATED SOURCE LARC UPWT 1056/1073 (1A42A/B)

PAGE 141

LRC 0 TPT 667 1.1 TEP4S1P201

(006016) (02 MAY 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO.		0/0		RN/L = 3.18		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
.600	-11.884	-.01887	-.81895	.34130	.26507	.26365	.18879
.601	-9.588	-.01716	-.67045	.28240	.26687	.26764	.18474
.600	-7.303	-.01459	-.53389	.22805	.26666	.26741	.18006
.600	-4.999	-.01483	-.39793	.17604	.26415	.26494	.17045
.601	-2.769	-.00097	-.27581	.13065	.26246	.26340	.16359
.600	-.501	.01050	-.16037	.08769	.26034	.26145	.15918
.600	1.743	.02346	-.04091	.04236	.25498	.25631	.15510
.600	4.017	.03033	.08037	-.05525	.24716	.24874	.15001
.600	6.332	.02228	.21411	-.04763	.23645	.23828	.15229
.599	8.591	.01587	.34314	-.09809	.22571	.22765	.15287
.600	10.870	.01795	.48341	-.15452	.21294	.21484	.15269
GRADIENT		.00509	.05365	-.02000	-.00184	-.00175	-.00192

RUN NO.		0/0		RN/L = 1.89		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
.799	-11.408	-.00883	-.78816	.32769	.29468	.29497	.19172
.799	-9.147	-.00815	-.63717	.26712	.29047	.29085	.18766
.799	-6.948	-.00797	-.50171	.21396	.28536	.28582	.17973
.799	-4.739	-.00705	-.36565	.16037	.28080	.28130	.17078
.799	-2.541	-.00420	-.23927	.11136	.27647	.27716	.16261
.800	-.351	.00399	-.12191	.06464	.27202	.27309	.15584
.800	1.833	.01551	.00190	.01240	.26551	.26682	.15191
.800	4.013	.02076	.12615	-.03309	.26108	.26271	.15226
.799	6.239	.01772	.26129	-.08334	.25518	.25694	.15357
.800	8.435	.01028	.38520	-.12873	.25820	.25994	.15651
.799	10.597	.00559	.49872	-.17240	.26072	.26253	.16014
GRADIENT		.00344	.05598	-.02221	-.00230	-.00217	-.00218

LRC 0 TPT 667 1A41 T2P4S1P201

10800161 (02 MAY 74)

REFERENCE DATA

SRFP = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO.	0/ 0	RN/L = 1.99	GRADIENT INTERVAL = -5.00/ 5.00	CA	CAT	CAFT	CABT
ALPHA	BETA	CN	CLW				
-11.669	-.00841	-.83662	.34895	.32822	.32845	.12408	.20438
-9.386	-.01118	-.66194	.27330	.32445	.32486	.12685	.19800
-7.122	-.00939	-.49792	.20357	.31891	.31952	.13114	.18838
-4.858	-.00759	-.35010	.14292	.31335	.31406	.13362	.18044
-2.600	.00025	-.20621	.08597	.30835	.30912	.13678	.17234
-.374	.00951	-.07036	.02869	.30234	.30332	.13748	.16584
1.864	.01579	.07131	-.03611	.29539	.29645	.13793	.15852
4.069	.01812	.19672	-.08693	.29450	.29572	.13615	.15957
6.285	.01896	.31038	-.12027	.29622	.29756	.13390	.16366
8.532	.01308	.43699	-.16673	.29915	.30009	.12909	.17101
10.729	.00685	.55083	-.20407	.30122	.30205	.12409	.17796
GRADIENT		.06144	-.02598	-.00227	-.00221	.00028	-.00249

GRADIENT INTERVAL = -5.00/ 5.00								
RUN NO.	0/ 0	RN/L = 2.05	CLM	CA	CAT	CAFT	CABT	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
.978	-11.991	.00114	-.89216	.36186	.40327	.40361	.15938	.24422
.980	-9.657	.00065	-.70336	.28418	.40253	.40286	.16479	.23807
.961	-7.331	-.00299	-.52875	.21367	.39952	.40009	.17003	.22706
.981	-5.016	-.00358	-.37071	.15296	.39488	.39574	.17657	.21918
.980	-2.731	-.00090	-.22874	.10143	.39000	.39114	.17887	.21228
.979	-.464	.00972	-.09728	.05570	.38742	.38866	.17829	.21036
.980	1.807	.02159	.04960	-.00397	.38902	.39021	.17660	.21351
.980	4.032	.02406	.19655	-.07549	.39476	.39576	.17427	.22148
.979	6.301	.01659	.33835	-.13836	.39311	.39405	.16912	.22493
.979	8.570	.01126	.47031	-.18374	.38940	.39058	.16273	.22795
.979	10.825	.01126	.59230	-.22058	.38458	.38653	.15440	.23213
.979	GRADIENT	.00385	.06306	-.02616	.00070	.00068	-.00069	.00136



DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 143

LRC 0 TPT 667 1A41 72P4S1P201

(06016) (02 MAY 74)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. ZMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0155 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO.		0/ 0		RM/L = 2.11		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
1.201	-11.185	.05521	-.82940	.32904	.44268	.44260	.21803
1.201	-9.995	.05467	-.73102	.28891	.44035	.44027	.21607
1.201	-7.586	-.05159	-.55025	.21955	.43692	.43682	.21081
1.201	-5.222	-.05499	-.36681	.15787	.43321	.43326	.20349
1.201	-2.858	-.05122	-.22453	.09429	.43043	.43116	.19775
1.201	-.537	.05895	-.07192	.03470	.42985	.43089	.19574
1.201	1.791	.02239	.07649	-.02111	.42830	.42903	.19570
1.201	4.077	.02453	.20911	-.07770	.42658	.42741	.19742
1.201	6.382	.01978	.34579	-.13038	.41848	.41938	.19552
1.200	8.683	.01265	.48375	-.18623	.40913	.41003	.19152
1.201	10.954	.00455	.59952	-.21955	.40532	.40630	.19354
GRADIENT		.00392	.06266	-.02474	-.00057	-.00057	-.00055

RUN NO.		0/ 0		RM/L = 1.50		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
2.000	-4.218	-.01853	-.29728	.11114	.35304	.35260	.12187
2.000	-2.003	-.01841	-.17688	.07285	.35150	.35106	.12187
2.000	.202	-.01508	-.06357	.03829	.34913	.34885	.12193
2.000	2.426	-.01993	.05741	-.00193	.34391	.34363	.11996
2.000	4.603	-.02248	.17292	-.04458	.33922	.33894	.11954
2.000	6.799	-.01927	.29477	-.09076	.33605	.33593	.11750
2.000	9.028	-.02441	.42632	-.13327	.33554	.33542	.11597
2.000	11.270	-.03013	.54356	-.16149	.33512	.33499	.11530
GRADIENT		-.00043	.05322	-.01750	-.00160	-.00157	-.00034

RUN NO.		0/ 0		RM/L = 2.50		GRADIENT INTERVAL = -5.00/ 5.00	
MACH	ALPHA	BETA	CN	CLM	CA	CAT	CABT
2.500	-9.256	-.01924	-.59501	.22101	.32830	.32812	.08446
2.500	-6.795	-.03858	-.44204	.16491	.31867	.31849	.08471
2.500	-4.512	-.03906	-.31067	.12072	.31065	.31037	.08476
2.500	-2.135	-.04370	-.18162	.08102	.30649	.30611	.08389
2.500	.177	-.05016	-.07651	.05355	.30304	.30304	.08351
2.500	2.450	-.04164	.02631	.02409	.29671	.29633	.08216
2.500	4.773	-.04382	.14227	-.01516	.29131	.29093	.08082
2.500	7.108	-.04234	.26830	-.05612	.28886	.28858	.08002
2.500	9.456	-.04966	.40327	-.10401	.28613	.28585	.07948
2.500	11.832	-.05008	.53762	-.14409	.28423	.28395	.07932
GRADIENT		-.00033	.04811	-.01420	-.00209	-.00210	-.00041

LFC 8 TPT 667 1A41 12P431P201

(086016) (02 MAY 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1295.3000 INCHES YMRP = .0000 INCHES
 BREF = 1295.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.860	-12.301	-.02944	-.71161	.26300	.31894	.31875	.23402	.06473
2.860	-10.590	-.02986	-.7899	.21375	.30802	.30750	.24332	.06417
2.860	-7.707	-.03226	-.44832	.16703	.29682	.29632	.23154	.06478
2.860	-5.501	-.03923	-.32681	.12463	.28648	.28607	.22146	.06461
2.860	-3.208	-.04250	-.21188	.08598	.27945	.27893	.21483	.06410
2.860	-.946	-.04159	-.11244	.05784	.27404	.27352	.20986	.06366
2.860	1.298	-.04676	-.02324	.03763	.26866	.26814	.20484	.06330
2.860	3.553	-.05060	.07252	.00915	.26196	.26144	.19884	.06290
2.860	5.804	-.05254	.17812	-.02656	.25708	.25667	.19492	.06175
2.860	8.077	-.05286	.29226	-.06552	.25292	.25262	.19141	.06121
2.860	10.376	-.05635	.41861	-.11057	.24955	.24927	.18849	.06078
GRADIENT		-.00131	.04184	-.01113	-.00257	-.00257	-.00235	-.00022

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-11.960	.00406	-.56810	.19386	.27848	.27818	.24006	.03812
3.900	-9.742	-.00219	-.47346	.16648	.26656	.26626	.22846	.03779
3.900	-7.538	-.00458	-.38178	.13977	.25501	.25456	.21620	.03836
3.900	-5.324	-.00506	-.29261	.11535	.24274	.24244	.20360	.03884
3.900	-3.129	-.00549	-.20385	.08933	.23338	.23308	.19481	.03827
3.900	-.943	-.00592	-.11937	.06602	.22506	.22490	.18686	.03804
3.900	1.257	-.00695	-.03826	.04396	.21859	.21829	.17997	.03832
3.900	3.439	-.01201	.04416	.02239	.21427	.21411	.17618	.03793
3.900	5.631	-.01184	.12655	-.00185	.20970	.20954	.17136	.03818
3.900	7.826	-.01300	.21732	-.03048	.20514	.20484	.16726	.03758
3.900	10.037	-.01186	.32035	-.06640	.20111	.20081	.16408	.03673
GRADIENT		-.00094	.03781	-.01018	-.00291	-.00290	-.00287	-.00003

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 145

LRC 6 TPT 667 1A41 T2P4S1P201

(06016) (02 MAY 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0155 SCALE

PARAMETRIC DATA

BETA = .000 RUDDER = .000

RUN NO. 0/0 RNVL = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-11.068	.00651	-.50902	.17138	.26988	.26949	.24465	.02484
4.630	-8.921	.00220	-.42126	.14889	.25575	.25555	.22960	.02595
4.630	-6.780	-.00078	-.33819	.12337	.24320	.24281	.21687	.02594
4.630	-4.642	-.00125	-.25789	.10162	.23142	.23103	.20468	.02635
4.630	-2.503	-.00173	-.18145	.08229	.22187	.22129	.19467	.02662
4.630	-.365	-.00157	-.10309	.06116	.21280	.21241	.18538	.02703
4.630	1.767	-.00203	-.02886	.04325	.20326	.20487	.17784	.02703
4.630	3.902	-.00322	.04703	.02272	.19911	.19872	.17169	.02653
4.630	6.042	-.00185	.12243	.00192	.19335	.19296	.16643	.02685
4.630	8.197	-.00153	.20951	-.02580	.18712	.18673	.15988	.02563
4.630	10.345	-.00057	.30460	-.05865	.17939	.17881	.15318	.02563
GRADIENT		-.00020	.03570	-.00922	-.00380	-.00379	-.00388	.00008

MACH	XAC/L
.600	.372771
.799	.396713
.901	.422834
.978	.414859
1.201	.394880
2.000	.328755
2.500	.295113
2.860	.266037
3.900	.269130
4.630	.258175

LRC UPWT 1056/1073 1A42A/B T2P4S1P201

(06017) (C2 MAY 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0130 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.000	-4.242	5.39726	-.30952	.11828	.35596	.33310	.23858	.11709
2.000	-1.998	5.38681	-.17491	.07077	.35305	.32372	.23529	.11748
2.000	.205	5.38037	-.05444	.03048	.34949	.31534	.23432	.11504
2.000	2.418	5.36587	.06273	-.00776	.34490	.30984	.22824	.08160
2.000	4.610	5.36292	.17805	-.04840	.34700	.30466	.22398	.08050
2.000	6.815	5.37722	.29914	-.09129	.33575	.29207	.21213	.07994
2.000	9.036	5.38151	.42411	-.13067	.33165	.28144	.20549	.07595
2.000	11.285	5.38430	.55610	-.17027	.32788	.27719	.20208	.07493
GRADIENT		-.05405	.05483	-.01862	-.00181	-.00254	-.00227	-.00029

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.500	-9.267	5.70267	-.60503	.22684	.33318	.33310	.24992	.08318
2.500	-6.820	5.67586	-.45258	.17093	.32360	.32372	.23981	.08391
2.500	-4.532	5.64428	-.32079	.12455	.31532	.31534	.23288	.08246
2.500	-2.169	5.61440	-.18488	.08184	.30992	.30984	.22824	.08160
2.500	.152	5.60512	-.07881	.05191	.30466	.30448	.22398	.08050
2.500	2.478	5.58530	.04208	.01353	.29709	.29681	.21688	.07994
2.500	4.788	5.57466	.16273	-.03005	.29214	.29207	.21213	.07994
2.500	7.135	5.56553	.28908	-.07219	.28717	.28710	.20909	.07800
2.500	9.505	5.56692	.43213	-.12177	.28151	.28144	.20549	.07595
2.500	11.886	5.56826	.56756	-.16288	.27719	.27701	.20208	.07493
GRADIENT		-.00723	.05128	-.01621	-.00254	-.00256	-.00227	-.00029

RUN NO. 0/ 0 RN/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
2.860	-12.298	5.65832	-.71136	.26342	.32503	.32462	.26258	.08204
2.860	-10.089	5.63229	-.58507	.21680	.31387	.31368	.25010	.06358
2.860	-7.729	5.61110	-.45163	.16923	.30311	.30303	.23832	.06472
2.860	-5.496	5.57924	-.32947	.12633	.29261	.29253	.22830	.06423
2.860	-3.219	5.55359	-.21525	.08790	.28309	.28290	.21883	.06407
2.860	-.947	5.53775	-.11480	.05928	.27596	.27577	.21290	.06288
2.860	1.303	5.52359	-.01597	.03245	.27014	.26995	.20700	.06295
2.860	3.583	5.51611	.08913	-.00293	.26364	.26335	.20049	.06285
2.860	5.835	5.51869	.20239	-.04264	.25953	.25924	.19686	.06238
2.860	8.121	5.52144	.32402	-.08699	.25360	.25331	.19239	.06192
2.860	10.425	5.52457	.44773	-.12942	.24853	.24813	.18982	.05830
GRADIENT		-.00559	.04467	-.01321	-.00283	-.00285	-.00269	-.00016

DATE 12 JUL 74

TABULATED SOURCE DATA, LARC UPWT 1056/1073 (1A42A/B)

PAGE 147

(06017) (02 MAY 74)

LRC UPWT 1056/1073 1A42A/B T2P4S1P201

REFERENCE DATA

SREF = 2890.0000 SQ.FT. YMRP = 976.0000 INCHES
 LREF = 1290.3000 INCHES YMRP = .0000 INCHES
 BREF = 1290.3000 INCHES ZMRP = 400.0000 INCHES
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 RUDDER = .000

RUN NO. 0/ 0 RV/L = 2.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
3.900	-11.967	5.49761	-.57405	.19647	.28456	.26426	.24757	.03669
3.900	-9.760	5.48456	-.47930	.16834	.27205	.27189	.23386	.03804
3.900	-7.559	5.47305	-.39033	.14377	.26106	.26076	.22250	.03826
3.900	-5.349	5.45888	-.30161	.12015	.24900	.24870	.21066	.03804
3.900	-3.138	5.44406	-.20791	.09110	.23916	.23886	.20033	.03853
3.900	-.949	5.42729	-.12175	.06702	.22991	.22961	.19068	.03893
3.900	1.255	5.41250	-.03587	.04429	.22178	.22148	.18248	.03900
3.900	3.450	5.40841	.05159	.01698	.21600	.21555	.17702	.03853
3.900	5.639	5.40800	.13889	-.01150	.21213	.21183	.17369	.03814
3.900	7.848	5.40434	.23812	-.04478	.20810	.20780	.16917	.03863
3.900	10.062	5.39955	.33995	-.07919	.20479	.20449	.16694	.03755
GRADIENT		-.00354	.03932	-.01116	-.00353	-.00355	-.00356	.00000

RUN NO. 0/ 0 RV/L = 2.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CLM	CA	CAT	CAFT	CABT
4.630	-11.079	5.35137	-.51142	.17576	.27443	.27403	.24824	.02580
4.630	-8.933	5.34900	-.42761	.15188	.26221	.26201	.23606	.02595
4.630	-6.788	5.34213	-.34768	.13106	.24911	.24872	.22277	.02595
4.630	-4.643	5.33918	-.26450	.10616	.23638	.23799	.21137	.02662
4.630	-2.507	5.32982	-.18107	.08132	.22774	.22735	.20072	.02663
4.630	-.566	5.31868	-.10032	.05891	.21766	.21727	.19023	.02704
4.630	1.781	5.30809	-.02403	.03935	.20687	.20667	.17922	.02744
4.630	3.917	5.30256	.05831	.01333	.19871	.19832	.17129	.02703
4.630	6.056	5.29681	.13337	-.00779	.19331	.19492	.16747	.02744
4.630	8.206	5.29318	.22325	-.03720	.18964	.18906	.16273	.02633
4.630	10.352	5.28623	.31297	-.06574	.18523	.18484	.15808	.02675
GRADIENT		-.00444	.03749	-.01063	-.00468	-.00467	-.00475	.00008

MACH	YAC/L
2.000	.339632
2.500	.316143
2.860	.295807
3.900	.283739
4.630	.283588